

7.7 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-323 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-323. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

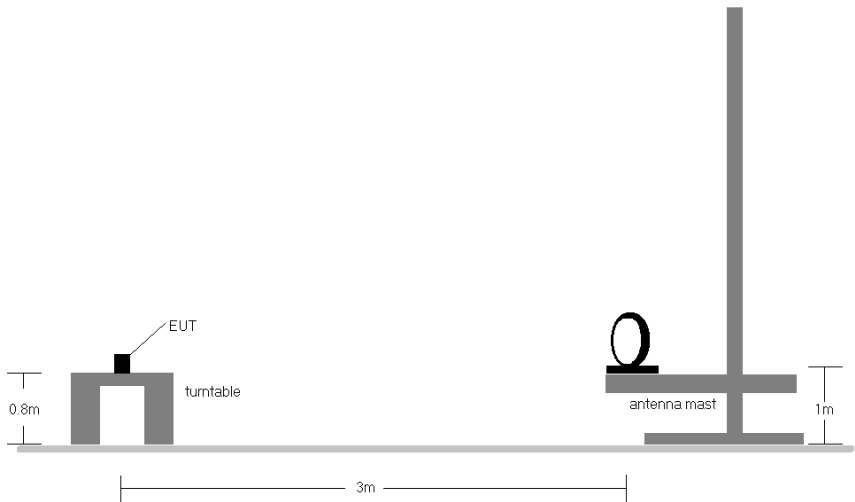


Figure 7-6. Radiated Test Setup < 30MHz

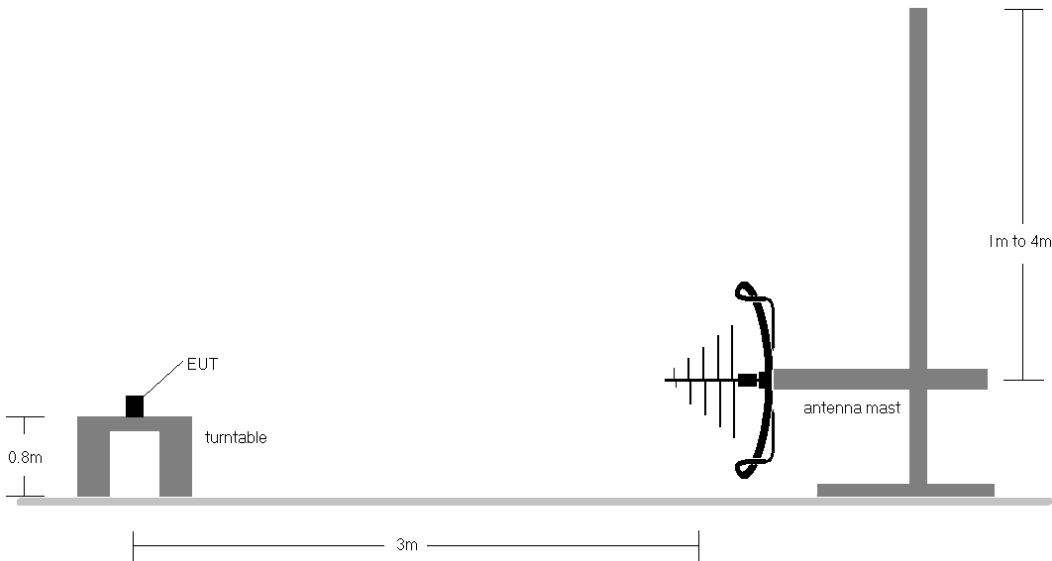


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-323.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. All antenna configurations and data rates were investigated and only the worst case are reported.
11. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

Determining Spurious Emissions Levels

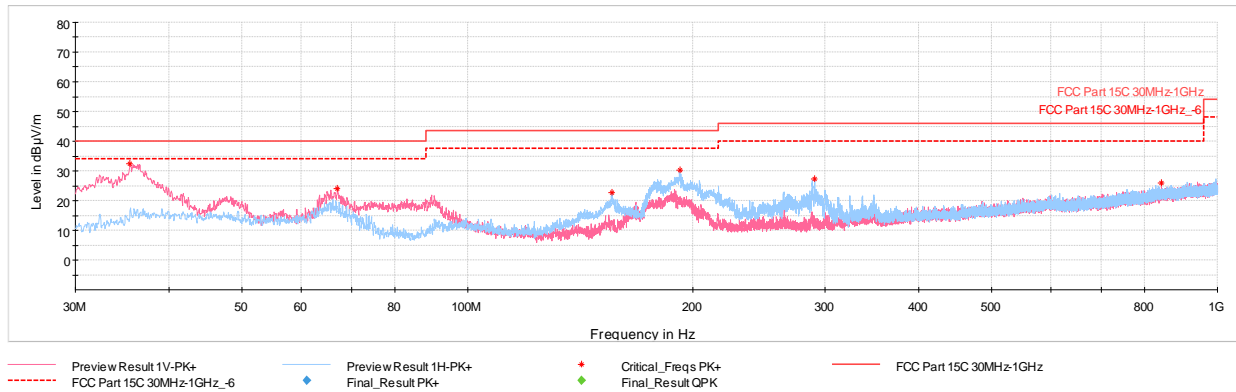
- Field Strength Level $[\text{dB}_{\mu\text{V/m}}] = \text{Analyzer Level } [\text{dBm}] + 107 + \text{AFCL } [\text{dB/m}]$
- $\text{AFCL } [\text{dB/m}] = \text{Antenna Factor } [\text{dB/m}] + \text{Cable Loss } [\text{dB}] - \text{Preamplifier Gain } [\text{dB}]$
- $\text{Margin } [\text{dB}] = \text{Field Strength Level } [\text{dB}_{\mu\text{V/m}}] - \text{Limit } [\text{dB}_{\mu\text{V/m}}]$

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7.7.1 SDM Primary Radiated Spurious Emissions (Below 1GHz)

§15.209; RSS-Gen [8.9]



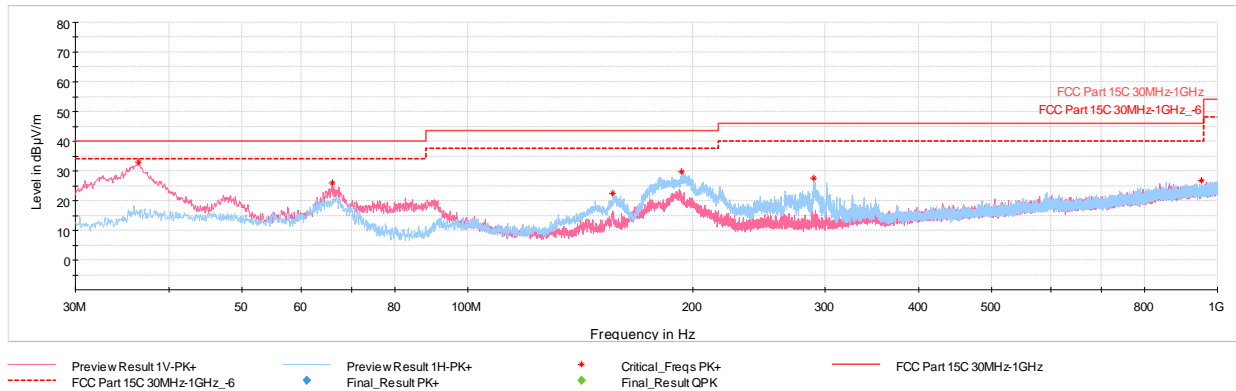
Plot 7-1089. RSE below 1GHz SDM Primary (RU26 – Ch.40), with AC/DC adaptor and USB-C cable

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
35.48	Max Peak	V	100	253	-59.31	-15.12	32.57	40.00	-7.43
67.10	Max Peak	V	100	253	-65.79	-17.25	23.96	40.00	-16.04
155.81	Max Peak	H	100	158	-65.05	-19.26	22.69	43.52	-20.83
191.89	Max Peak	H	100	197	-60.12	-16.63	30.25	43.52	-13.27
290.54	Max Peak	H	100	264	-65.61	-14.10	27.29	46.02	-18.73
842.04	Max Peak	V	100	77	-78.09	-3.03	25.88	46.02	-20.14

Table 7-324. RSE below 1GHz SDM Primary (RU26 – Ch.40), with AC/DC adaptor and USB-C cable

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
36.45	Max Peak	V	100	15	-59.35	-14.76	32.89	40.00	-7.11
65.99	Max Peak	V	100	225	-64.31	-16.88	25.81	40.00	-14.19
156.29	Max Peak	H	200	12	-65.31	-19.24	22.45	43.52	-21.07
192.86	Max Peak	H	100	187	-60.67	-16.51	29.82	43.52	-13.70
289.72	Max Peak	H	100	266	-65.41	-14.12	27.47	46.02	-18.55
951.69	Max Peak	V	100	9	-78.56	-1.71	26.73	46.02	-19.29

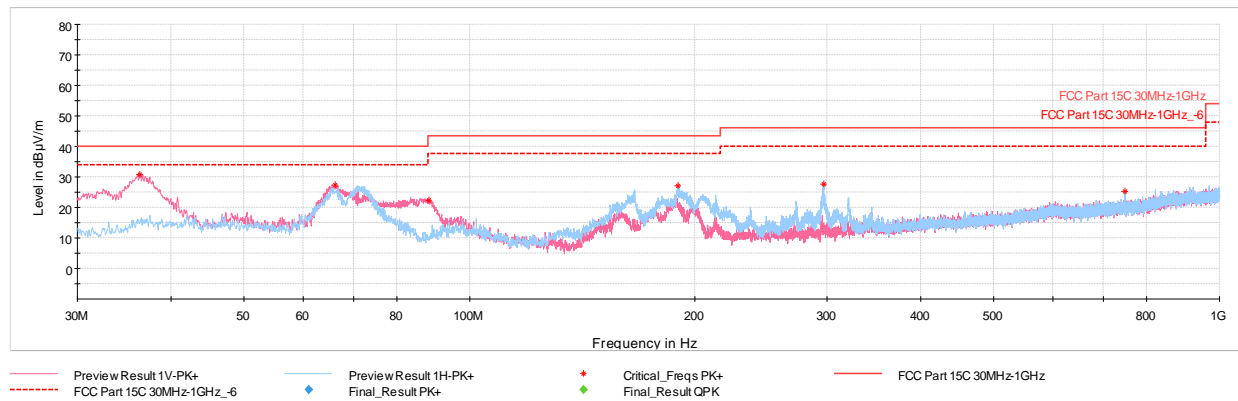
Table 7-325. RSE below 1GHz SDM Primary (RU242– Ch.40), with AC/DC adaptor and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.7.2 SDM Diversity Radiated Spurious Emissions (Below 1GHz)

§15.209; RSS-Gen [8.9]



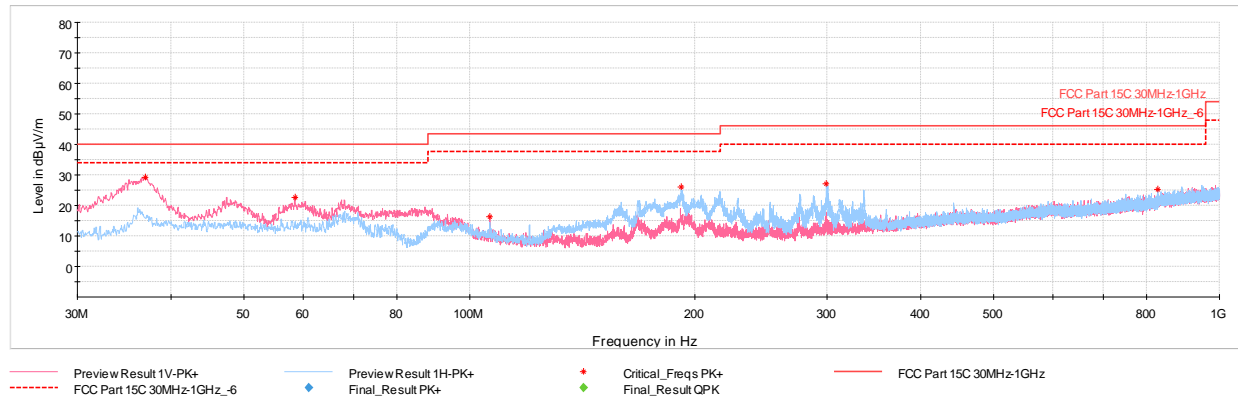
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
36.35	Max Peak	V	100	265	-61.50	-14.79	30.71	40.00	-9.29
66.23	Max Peak	V	300	162	-62.61	-16.96	27.43	40.00	-12.57
88.35	Max Peak	V	100	211	-66.17	-18.49	22.34	43.52	-21.18
189.76	Max Peak	H	100	171	-62.92	-16.97	27.11	43.52	-16.41
296.61	Max Peak	H	100	244	-65.27	-13.97	27.76	46.02	-18.26
748.19	Max Peak	H	100	230	-77.06	-4.70	25.24	46.02	-20.78

Table 7-326. RSE below 1GHz SDM Diversity (RU26 – Ch.40), with AC/DC adaptor and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-1092. RSE below 1GHz SDM Diversity (RU242 – Ch.40), with AC/DC adaptor and USB-C cable

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
36.94	Max Peak	V	100	284	-63.09	-14.60	29.31	40.00	-10.69
58.52	Max Peak	V	100	329	-69.91	-14.50	22.59	40.00	-17.41
106.44	Max Peak	V	300	62	-74.29	-16.29	16.42	43.52	-27.10
191.55	Max Peak	H	100	173	-64.34	-16.70	25.96	43.52	-17.56
299.27	Max Peak	H	100	85	-66.03	-13.94	27.03	46.02	-18.99
827.34	Max Peak	H	100	16	-78.29	-3.58	25.13	46.02	-20.89

Table 7-327. RSE below 1GHz SDM Diversity (RU242– Ch.40), with AC/DC adaptor and USB-C cable

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7.8 AC Line Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-328. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, Subclause 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

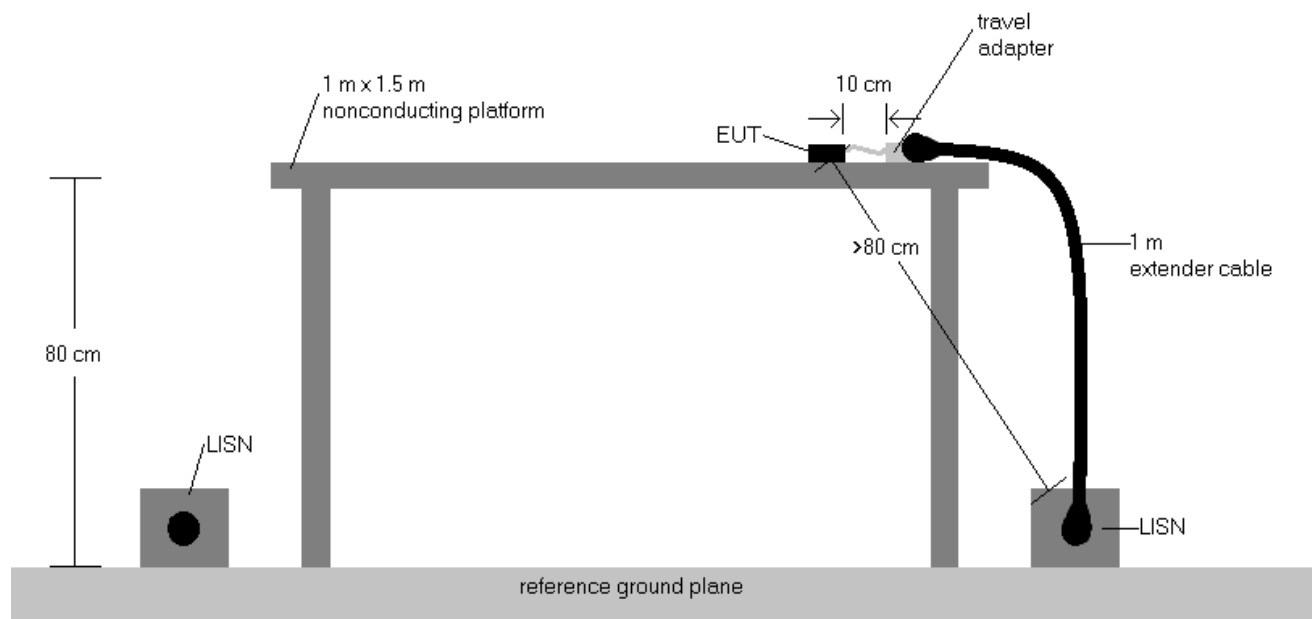


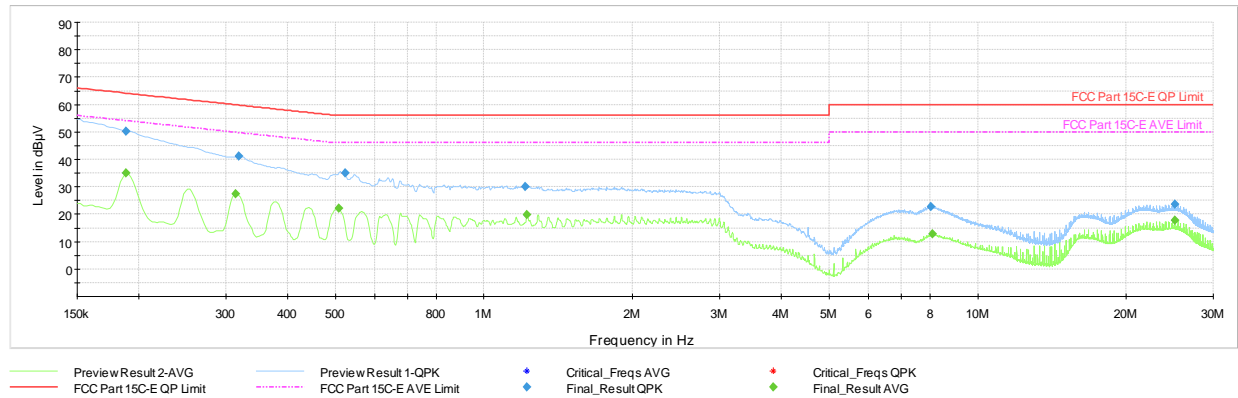
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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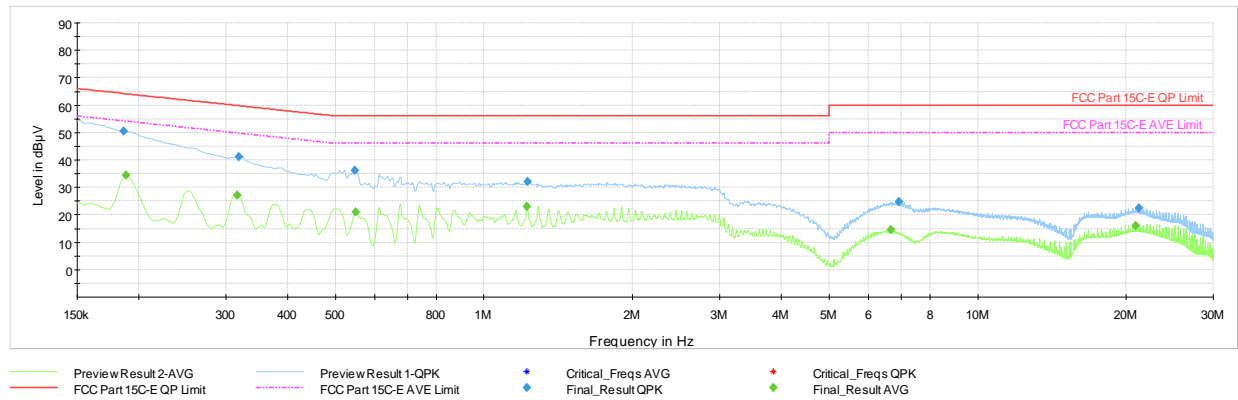
Plot 7-1093. AC Line Conducted Plot with 11ax UNII Band 1 SDM Primary – RU26 – Ch.40 (L1) with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.188	FINAL	—	34.92	54.11	-19.20	L1	9.97
0.188	FINAL	50.4	—	64.11	-13.74	L1	9.97
0.314	FINAL	—	27.39	49.86	-22.47	L1	9.94
0.319	FINAL	41.0	—	59.74	-18.70	L1	9.96
0.508	FINAL	—	22.15	46.00	-23.85	L1	10.14
0.524	FINAL	35.1	—	56.00	-20.87	L1	10.13
1.212	FINAL	29.9	—	56.00	-26.06	L1	9.96
1.223	FINAL	—	19.76	46.00	-26.24	L1	9.96
8.030	FINAL	22.8	—	60.00	-37.23	L1	9.65
8.111	FINAL	—	12.77	50.00	-37.23	L1	9.65
25.114	FINAL	—	17.66	50.00	-32.34	L1	10.06
25.114	FINAL	23.5	—	60.00	-36.48	L1	10.06

Table 7-329. AC Line Conducted with 11ax UNII Band 1 SDM Primary – RU26 – Ch.40 (L1) with host PC and USB-C cable

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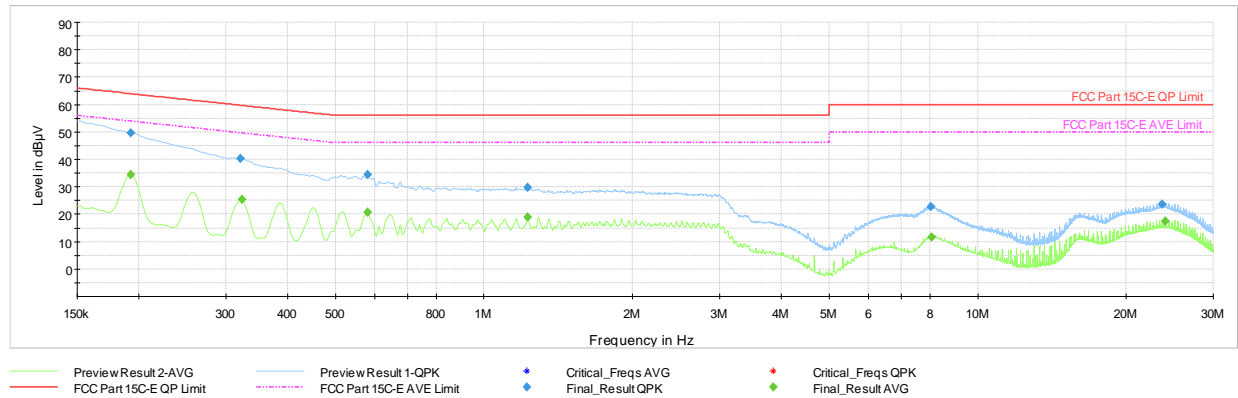
Plot 7-1094. AC Line Conducted Plot with 11ax UNII Band 1 SDM Primary – RU26 – Ch.40 (N) with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.186	FINAL	50.5	—	64.21	-13.73	N	10.00
0.188	FINAL	—	34.39	54.11	-19.73	N	9.97
0.317	FINAL	—	27.10	49.80	-22.70	N	9.96
0.319	FINAL	41.1	—	59.74	-18.60	N	9.96
0.548	FINAL	36.1	—	56.00	-19.89	N	10.12
0.551	FINAL	—	20.99	46.00	-25.01	N	10.12
1.223	FINAL	—	23.05	46.00	-22.95	N	9.96
1.226	FINAL	32.1	—	56.00	-23.93	N	9.96
6.666	FINAL	—	14.61	50.00	-35.39	N	9.95
6.911	FINAL	24.8	—	60.00	-35.22	N	9.85
20.893	FINAL	—	15.99	50.00	-34.01	N	10.32
21.224	FINAL	22.5	—	60.00	-37.54	N	10.23

Table 7-330. AC Line Conducted with 11ax UNII Band 1 SDM Primary – RU26 – Ch.40 (N) with host PC and USB-C cable

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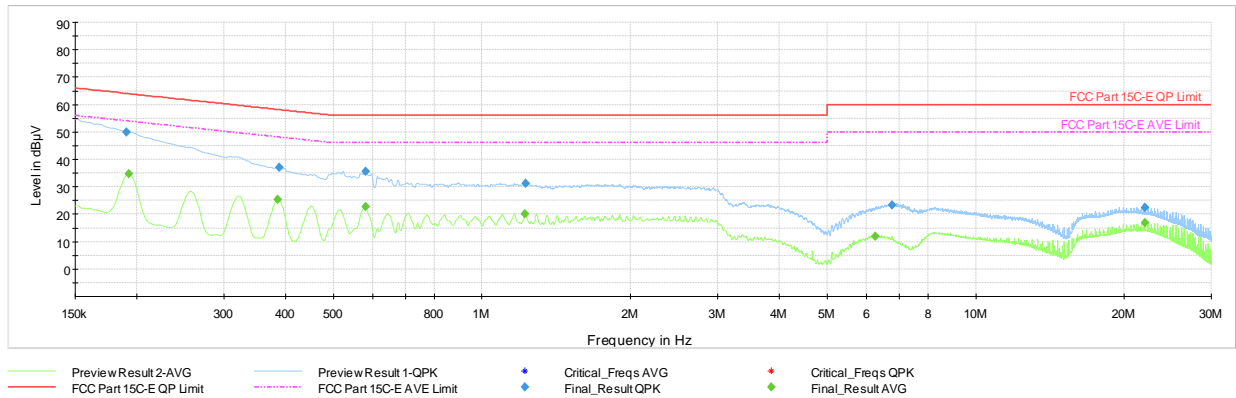
Plot 7-1095. AC Line Conducted Plot with 11ax UNII Band 1 SDM Primary – RU242 – Ch.40 (L1) with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.193	FINAL	—	34.49	53.92	-19.43	L1	9.93
0.193	FINAL	49.7	—	63.92	-14.27	L1	9.93
0.321	FINAL	40.4	—	59.68	-19.31	L1	9.97
0.323	FINAL	—	25.44	49.62	-24.18	L1	9.98
0.582	FINAL	—	20.83	46.00	-25.17	L1	10.10
0.582	FINAL	34.3	—	56.00	-21.69	L1	10.10
1.226	FINAL	29.7	—	56.00	-26.33	L1	9.96
1.226	FINAL	—	18.90	46.00	-27.10	L1	9.96
8.034	FINAL	22.8	—	60.00	-37.23	L1	9.65
8.059	FINAL	—	11.65	50.00	-38.35	L1	9.65
23.667	FINAL	23.8	—	60.00	-36.24	L1	10.27
24.002	FINAL	—	17.57	50.00	-32.43	L1	10.27

Table 7-331. AC Line Conducted with 11ax UNII Band 1 SDM Primary – RU242 – Ch.40 (L1) with host PC and USB-C cable

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Plot 7-1096. AC Line Conducted Plot with 11ax UNII Band 1 SDM Primary – RU242 – Ch.40 (N) with host PC and USB-C cable

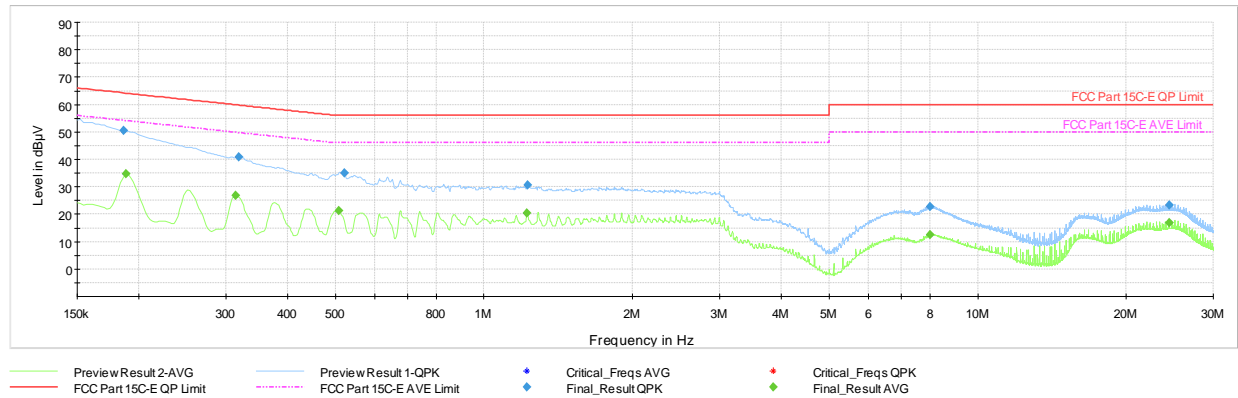
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	50.0	—	64.02	-14.01	N	9.95
0.193	FINAL	—	34.83	53.92	-19.09	N	9.93
0.386	FINAL	—	25.47	48.14	-22.68	N	10.02
0.389	FINAL	37.2	—	58.10	-20.90	N	10.02
0.582	FINAL	35.7	—	56.00	-20.30	N	10.11
0.582	FINAL	—	22.80	46.00	-23.20	N	10.11
1.223	FINAL	—	20.22	46.00	-25.78	N	9.96
1.226	FINAL	31.3	—	56.00	-24.72	N	9.96
6.252	FINAL	—	11.83	50.00	-38.17	N	10.15
6.767	FINAL	23.5	—	60.00	-36.55	N	9.95
22.002	FINAL	—	16.86	50.00	-33.14	N	10.24
22.002	FINAL	22.4	—	60.00	-37.56	N	10.24

Table 7-332. AC Line Conducted with 11ax UNII Band 1 SDM Primary – RU242 – Ch.40 (N) with host PC and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-1097. AC Line Conducted Plot with 11ax UNII Band 1 SDM Diversity – RU26 – Ch.40 (L1) with host PC and USB-C cable

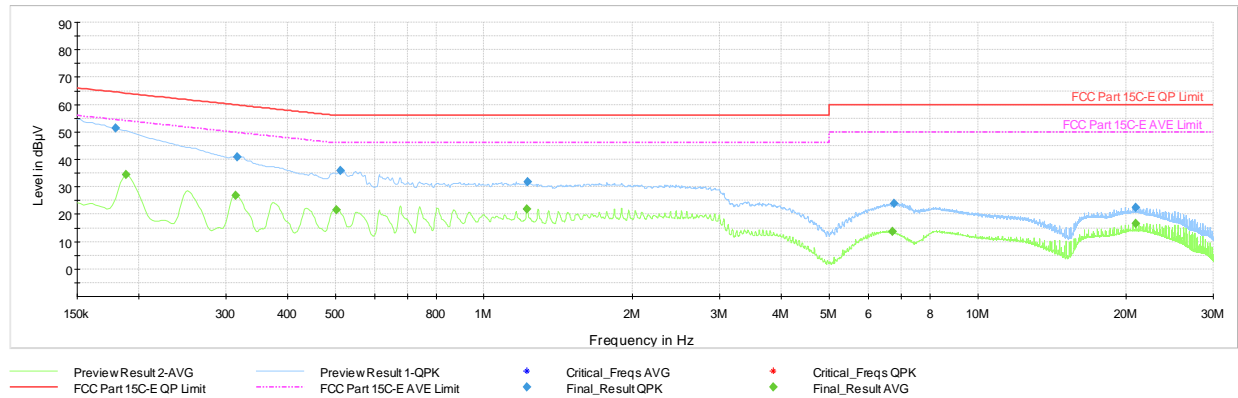
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.186	FINAL	50.5	—	64.21	-13.77	L1	9.99
0.188	FINAL	—	34.62	54.11	-19.49	L1	9.97
0.314	FINAL	—	26.82	49.86	-23.04	L1	9.94
0.319	FINAL	41.0	—	59.74	-18.76	L1	9.96
0.508	FINAL	—	21.29	46.00	-24.71	L1	10.14
0.521	FINAL	35.2	—	56.00	-20.83	L1	10.14
1.223	FINAL	—	20.33	46.00	-25.67	L1	9.96
1.226	FINAL	30.6	—	56.00	-25.36	L1	9.96
8.000	FINAL	—	12.46	50.00	-37.54	L1	9.65
8.014	FINAL	22.8	—	60.00	-37.25	L1	9.65
24.446	FINAL	—	16.95	50.00	-33.05	L1	10.20
24.446	FINAL	23.2	—	60.00	-36.77	L1	10.20

Table 7-333. AC Line Conducted with 11ax UNII Band 1 SDM Diversity – RU26 – Ch.40 (L1) with host PC and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-1098. AC Line Conducted Plot with 11ax UNII Band 1 SDM Diversity – RU26 – Ch.40 (N) with host PC and USB-C cable

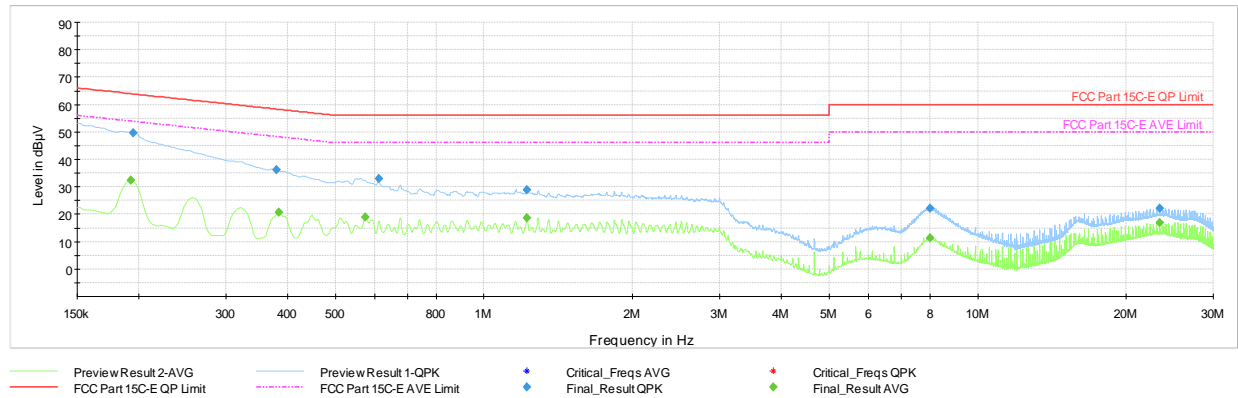
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.179	FINAL	51.3	—	64.52	-13.24	N	10.06
0.188	FINAL	—	34.44	54.11	-19.68	N	9.97
0.314	FINAL	—	26.90	49.86	-22.96	N	9.95
0.317	FINAL	40.9	—	59.80	-18.95	N	9.96
0.503	FINAL	—	21.64	46.00	-24.36	N	10.09
0.512	FINAL	35.8	—	56.00	-20.17	N	10.14
1.223	FINAL	—	21.96	46.00	-24.04	N	9.96
1.226	FINAL	31.8	—	56.00	-24.17	N	9.96
6.727	FINAL	—	13.65	50.00	-36.35	N	9.95
6.779	FINAL	23.8	—	60.00	-36.16	N	9.95
20.891	FINAL	—	16.50	50.00	-33.50	N	10.32
20.891	FINAL	22.5	—	60.00	-37.55	N	10.32

Table 7-334. AC Line Conducted with 11ax UNII Band 1 SDM Diversity – RU26 – Ch.40 (N) with host PC and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-1099. AC Line Conducted Plot with 11ax UNII Band 1 SDM Diversity – RU242 – Ch.40 (L1) with host PC and USB-C cable

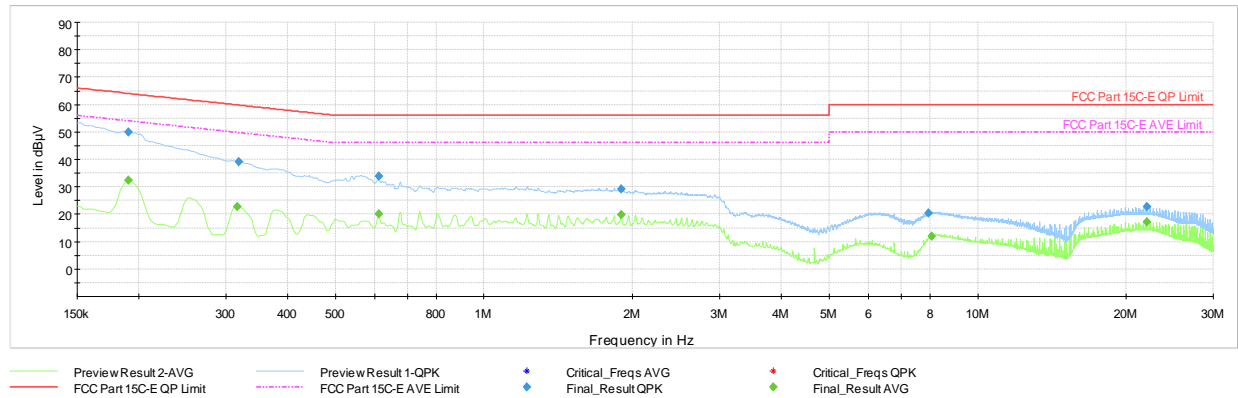
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.193	FINAL	—	32.45	53.92	-21.47	L1	9.93
0.195	FINAL	49.7	—	63.82	-14.08	L1	9.91
0.380	FINAL	36.2	—	58.29	-22.10	L1	10.01
0.384	FINAL	—	20.63	48.19	-27.56	L1	10.02
0.575	FINAL	—	18.85	46.00	-27.15	L1	10.10
0.611	FINAL	32.8	—	56.00	-23.16	L1	10.08
1.223	FINAL	29.0	—	56.00	-27.01	L1	9.96
1.223	FINAL	—	18.72	46.00	-27.28	L1	9.96
8.000	FINAL	—	11.47	50.00	-38.53	L1	9.65
8.012	FINAL	22.3	—	60.00	-37.75	L1	9.65
23.336	FINAL	—	16.94	50.00	-33.06	L1	10.27
23.336	FINAL	22.3	—	60.00	-37.74	L1	10.27

Table 7-335. AC Line Conducted with 11ax UNII Band 1 SDM Diversity – RU242 – Ch.40 (L1) with host PC and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-1100. AC Line Conducted Plot with 11ax UNII Band 1 SDM Diversity – RU242 – Ch.40 (N) with host PC and USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	—	32.52	54.02	-21.49	N	9.95
0.191	FINAL	50.0	—	64.02	-13.97	N	9.95
0.317	FINAL	—	22.85	49.80	-26.95	N	9.96
0.319	FINAL	39.1	—	59.74	-20.69	N	9.96
0.611	FINAL	—	20.10	46.00	-25.90	N	10.09
0.611	FINAL	33.9	—	56.00	-22.06	N	10.09
1.898	FINAL	29.3	—	56.00	-26.70	N	9.78
1.898	FINAL	—	19.84	46.00	-26.16	N	9.78
7.946	FINAL	20.5	—	60.00	-39.54	N	9.66
8.070	FINAL	—	12.02	50.00	-37.98	N	9.66
22.002	FINAL	—	17.23	50.00	-32.77	N	10.24
22.002	FINAL	22.6	—	60.00	-37.37	N	10.24

Table 7-336. AC Line Conducted with 11ax UNII Band 1 SDM Diversity – RU242 – Ch.40 (N) with host PC and USB-C cable

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2995** and **IC: 579C-A2995** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 429 of 429

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