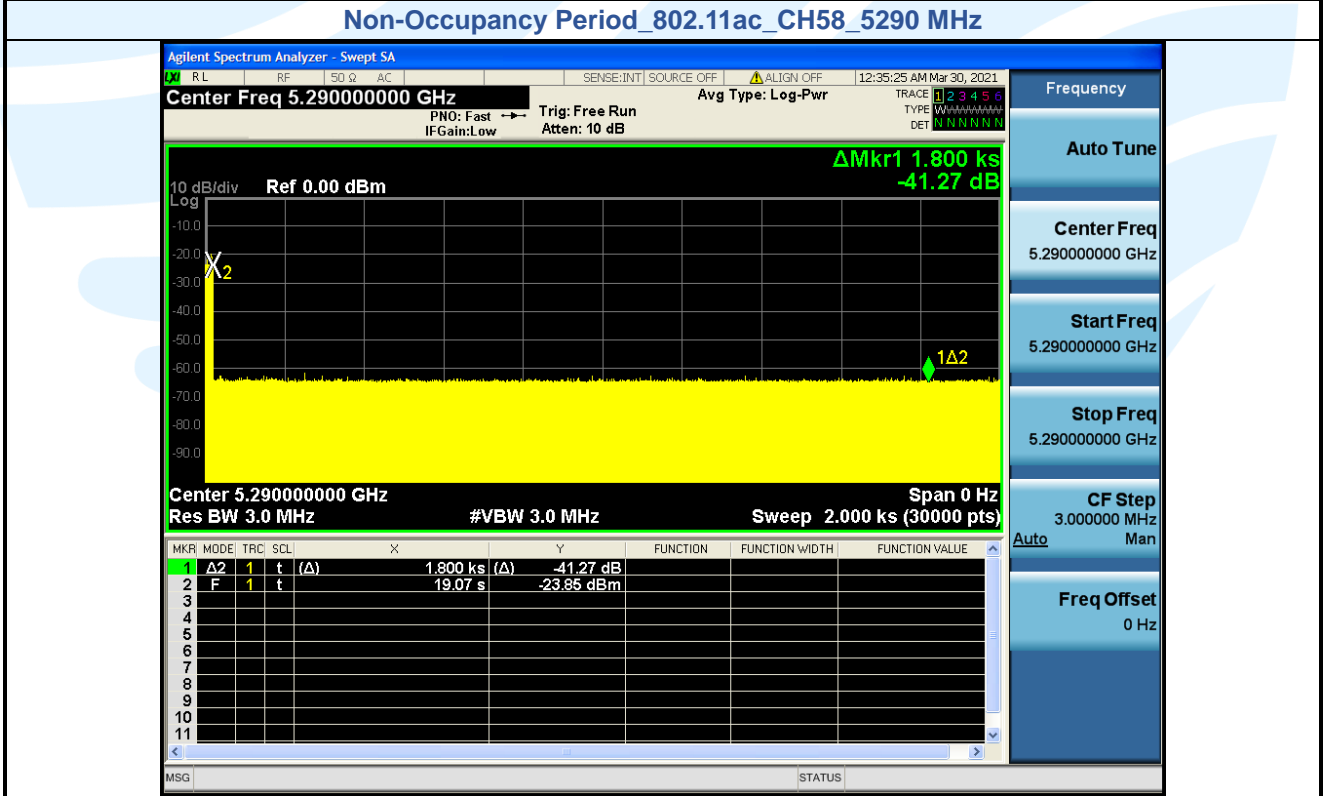
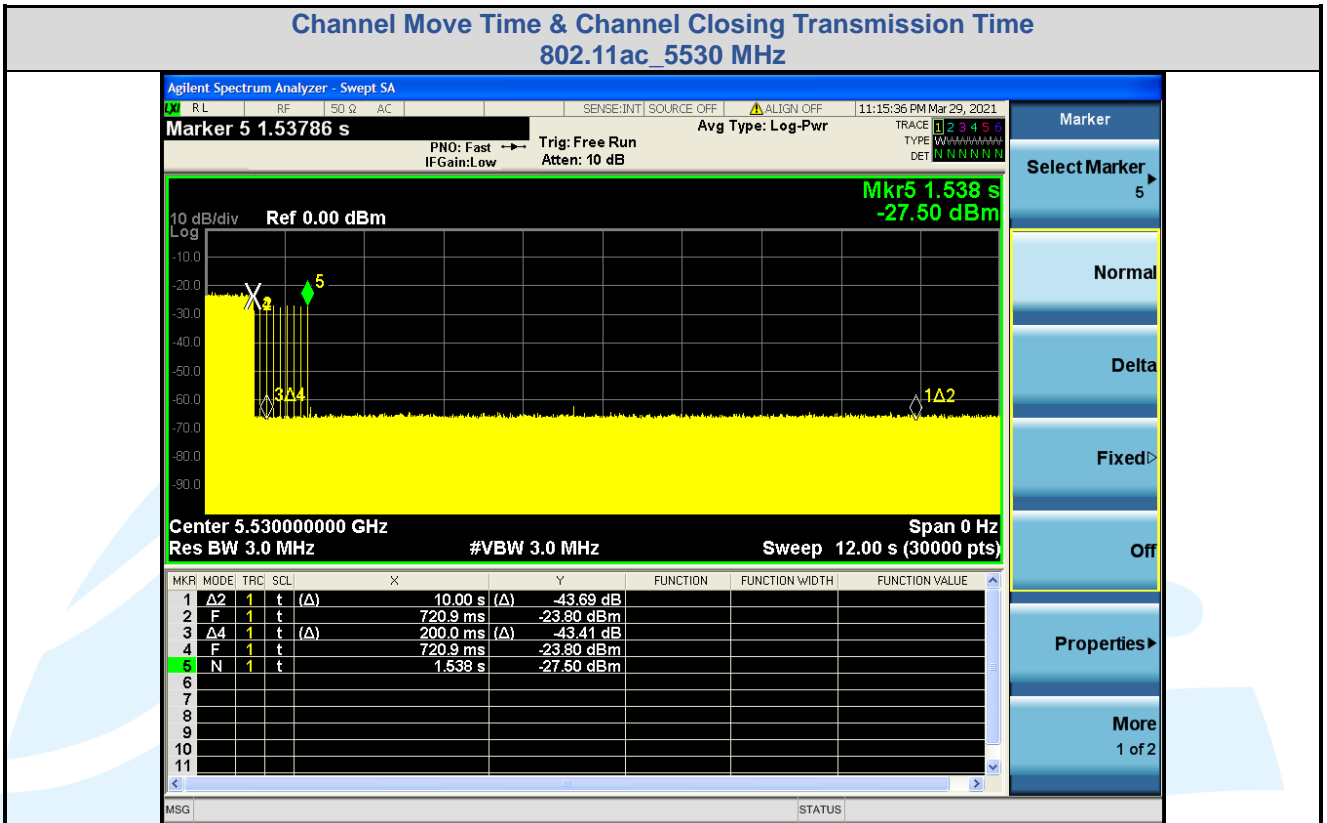


Note:

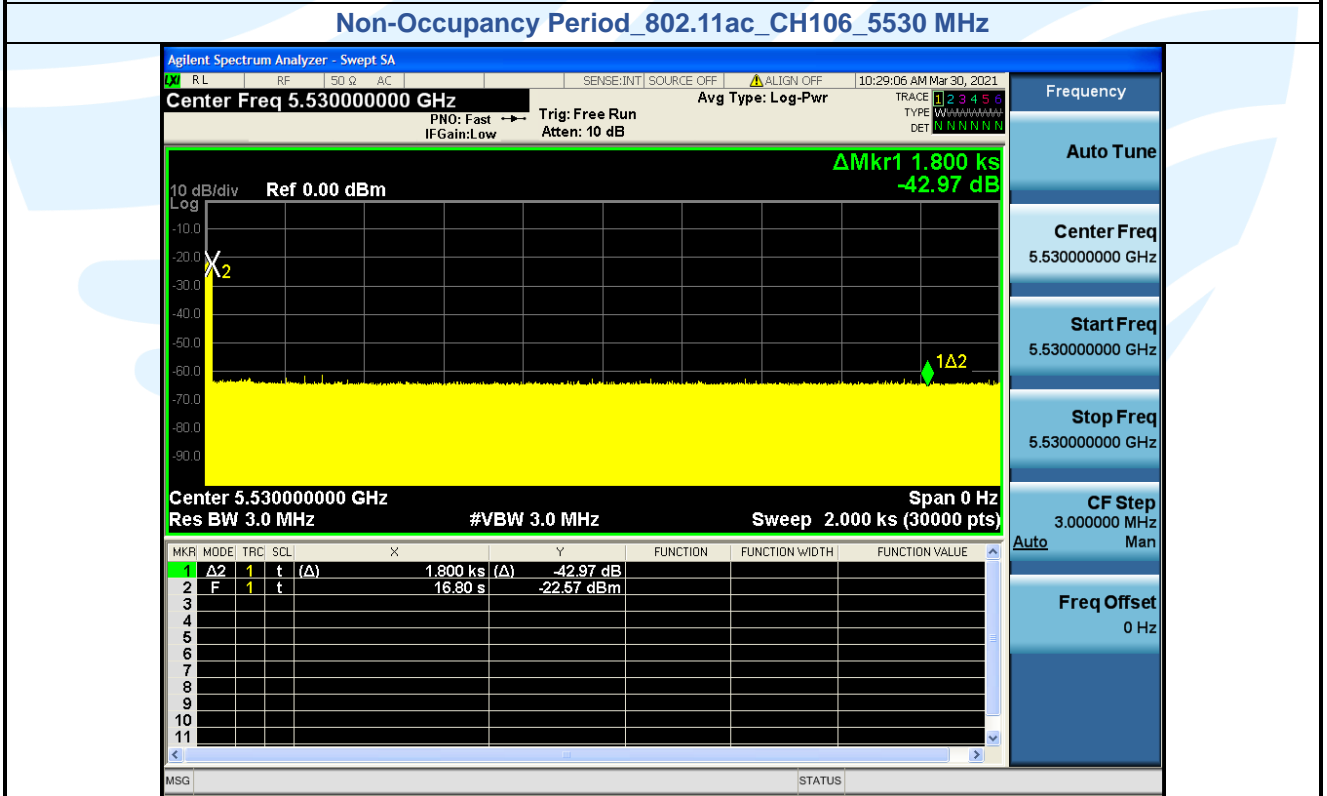
- 7) Mark1 Time: 376.1 ms, Mark2 Time: 1376.1 ms, Overtime Points: 38
- 8) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 38 x 0.4 = 15.2ms
- 9) CMT = 1.178 s - 0.376 s = 0.802s





Note:

- 10) Mark1 Time: 720.9 ms, Mark2 Time: 1720.9 ms, Overtime Points: 33
- 11) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 33x 0.4 = 13.2ms
- 12) CMT = 1.538 s – 0.721 s = 0.817s



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UTTR-RF-RSS247-V1.1

5.9 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6)
 FCC 47 CFR Part 15 Subpart C Section 15.207
 RSS-Gen Issue 5, Section 8.8

Test Method: ANSI C63.10-2013, Section 6.2.

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

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

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

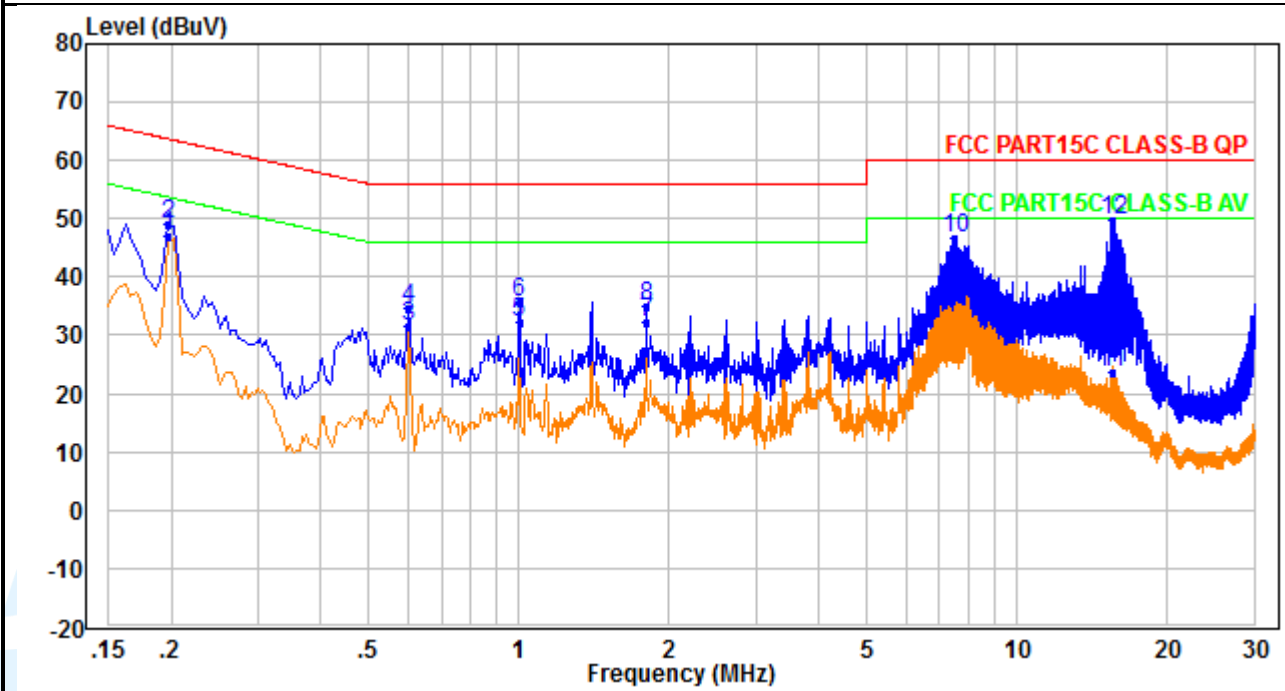
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:
 Quasi Peak and Average:
 Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.198	37.35	9.74	47.09	53.69	-6.60	Average
2	0.198	39.34	9.74	49.08	63.69	-14.61	QP
3	0.602	21.60	9.85	31.45	46.00	-14.55	Average
4	0.602	24.76	9.85	34.61	56.00	-21.39	QP
5	1.002	22.20	9.91	32.11	46.00	-13.89	Average
6	1.002	25.62	9.91	35.53	56.00	-20.47	QP
7	1.802	22.46	9.87	32.33	46.00	-13.67	Average
8	1.802	25.05	9.87	34.92	56.00	-21.08	QP
9	7.530	27.99	10.24	38.23	50.00	-11.77	Average
10	7.530	36.31	10.24	46.55	60.00	-13.45	QP
11	15.625	13.18	10.40	23.58	50.00	-26.42	Average
12	15.625	39.23	10.40	49.63	60.00	-10.37	QP

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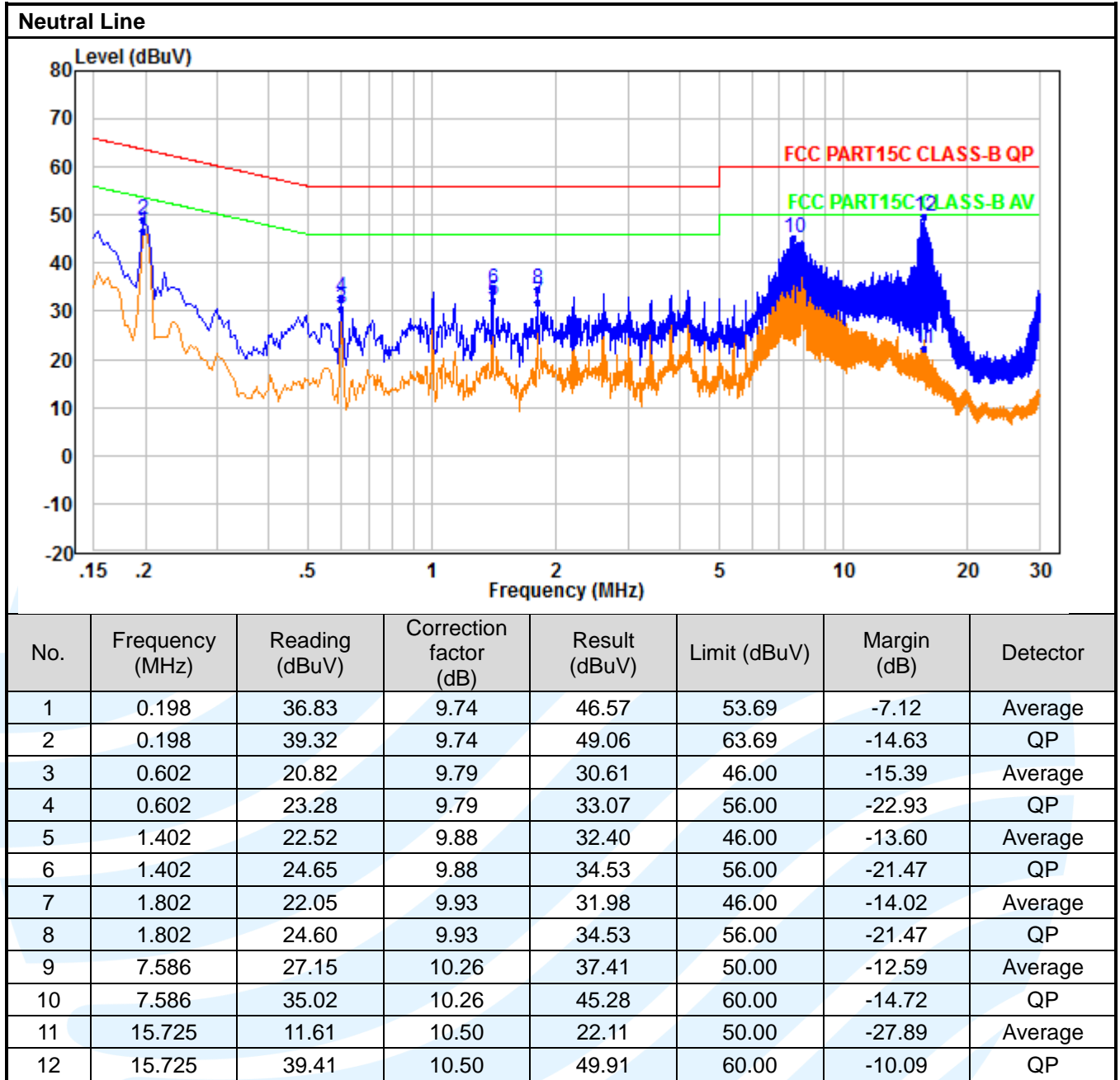
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Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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