Series Model No.: C25

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	52.96	-3.64	49.32	74	-24.68	peak
4824	42.83	-3.64	39.19	54	-14.81	AVG
7236	51.03	-0.95	50.08	74	-23.92	peak
7236	40.22	-0.95	39.27	54	-14.73	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	54.78	-3.64	51.14	74	-22.86	peak
4824	43.3	-3.64	39.66	54	-14.34	AVG
7236	51.69	-0.95	50.74	74	-23.26	peak
7236	39.46	-0.95	38.51	54	-15.49	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	53.11	-3.51	49.6	74	-24.4	peak
4874	41.41	-3.51	37.9	54	-16.1	AVG
7311	50.76	-0.82	49.94	74	-24.06	peak
7311	39.49	-0.82	38.67	54	-15.33	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	54.72	-3.51	51.21	74	-22.79	peak
4874	42.98	-3.51	39.47	54	-14.53	AVG
7311	52.12	-0.82	51.3	74	-22.7	peak
7311	39.62	-0.82	38.8	54	-15.2	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.45	-3.43	48.02	74	-25.98	peak
4924	41.74	-3.43	38.31	54	-15.69	AVG
7386	50.43	-0.75	49.68	74	-24.32	peak
7386	39.73	-0.75	38.98	54	-15.02	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	53.04	-3.43	49.61	74	-24.39	peak
4924	44.59	-3.43	41.16	54	-12.84	AVG
7386	51.47	-0.75	50.72	74	-23.28	peak
7386	41.15	-0.75	40.4	54	-13.6	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Remark：
(1) Measuring frequencies from 1 GHz to the 25 GHz.
(2) “F” denotes fundamental frequency; “H” denotes spurious frequency; “E” denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.
(7) All the test modes completed for test. only the worst result of Mode 1 (802.11b Mode)

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Series Model No.: I15 Ultra

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	52.81	-3.64	49.17	74	-24.83	peak
4824	42.87	-3.64	39.23	54	-14.77	AVG
7236	49.7	-0.95	48.75	74	-25.25	peak
7236	40.28	-0.95	39.33	54	-14.67	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	54.81	-3.64	51.17	74	-22.83	peak
4824	43.23	-3.64	39.59	54	-14.41	AVG
7236	52.13	-0.95	51.18	74	-22.82	peak
7236	39.73	-0.95	38.78	54	-15.22	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	53.41	-3.51	49.9	74	-24.1	peak
4874	42	-3.51	38.49	54	-15.51	AVG
7311	50.38	-0.82	49.56	74	-24.44	peak
7311	40.41	-0.82	39.59	54	-14.41	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	54.69	-3.51	51.18	74	-22.82	peak
4874	42.47	-3.51	38.96	54	-15.04	AVG
7311	51.78	-0.82	50.96	74	-23.04	peak
7311	38.95	-0.82	38.13	54	-15.87	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.72	-3.43	48.29	74	-25.71	peak
4924	41.45	-3.43	38.02	54	-15.98	AVG
7386	50.35	-0.75	49.6	74	-24.4	peak
7386	39.86	-0.75	39.11	54	-14.89	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	52.03	-3.43	48.6	74	-25.4	peak
4924	44.82	-3.43	41.39	54	-12.61	AVG
7386	52.49	-0.75	51.74	74	-22.26	peak
7386	41.01	-0.75	40.26	54	-13.74	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Remark：
(1) Measuring frequencies from 1 GHz to the 25 GHz.
(2) “F” denotes fundamental frequency; “H” denotes spurious frequency; “E” denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.
(7) All the test modes completed for test. only the worst result of Mode 1 (802.11b Mode)

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Series Model No.: C7 Ultra

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	52.57	-3.64	48.93	74	-25.07	peak
4824	41.91	-3.64	38.27	54	-15.73	AVG
7236	50.87	-0.95	49.92	74	-24.08	peak
7236	41.01	-0.95	40.06	54	-13.94	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	53.14	-3.64	49.5	74	-24.5	peak
4824	42.31	-3.64	38.67	54	-15.33	AVG
7236	52.65	-0.95	51.7	74	-22.3	peak
7236	38.96	-0.95	38.01	54	-15.99	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	52.65	-3.51	49.14	74	-24.86	peak
4874	41.46	-3.51	37.95	54	-16.05	AVG
7311	50.22	-0.82	49.4	74	-24.6	peak
7311	39.88	-0.82	39.06	54	-14.94	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	54.43	-3.51	50.92	74	-23.08	peak
4874	41.67	-3.51	38.16	54	-15.84	AVG
7311	51.73	-0.82	50.91	74	-23.09	peak
7311	39.5	-0.82	38.68	54	-15.32	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.93	-3.43	48.5	74	-25.5	peak
4924	40.85	-3.43	37.42	54	-16.58	AVG
7386	51.32	-0.75	50.57	74	-23.43	peak
7386	39.75	-0.75	39	54	-15	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	52.08	-3.43	48.65	74	-25.35	peak
4924	44.44	-3.43	41.01	54	-12.99	AVG
7386	52.3	-0.75	51.55	74	-22.45	peak
7386	41.47	-0.75	40.72	54	-13.28	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Remark：
(1) Measuring frequencies from 1 GHz to the 25 GHz.
(2) “F” denotes fundamental frequency; “H” denotes spurious frequency; “E” denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.
(7) All the test modes completed for test. only the worst result of Mode 1 (802.11b Mode)

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Series Model No.: S24 Ultra

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	53.5	-3.64	49.86	74	-24.14	peak
4824	42.23	-3.64	38.59	54	-15.41	AVG
7236	50.48	-0.95	49.53	74	-24.47	peak
7236	39.99	-0.95	39.04	54	-14.96	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	53.96	-3.64	50.32	74	-23.68	peak
4824	41.82	-3.64	38.18	54	-15.82	AVG
7236	51.86	-0.95	50.91	74	-23.09	peak
7236	38.5	-0.95	37.55	54	-16.45	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	52.9	-3.51	49.39	74	-24.61	peak
4874	40.94	-3.51	37.43	54	-16.57	AVG
7311	49.67	-0.82	48.85	74	-25.15	peak
7311	39.86	-0.82	39.04	54	-14.96	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	54.56	-3.51	51.05	74	-22.95	peak
4874	42.09	-3.51	38.58	54	-15.42	AVG
7311	50.4	-0.82	49.58	74	-24.42	peak
7311	39.38	-0.82	38.56	54	-15.44	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.47	-3.43	48.04	74	-25.96	peak
4924	40.08	-3.43	36.65	54	-17.35	AVG
7386	51.41	-0.75	50.66	74	-23.34	peak
7386	39.25	-0.75	38.5	54	-15.5	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	53.56	-3.43	50.13	74	-23.87	peak
4924	43.02	-3.43	39.59	54	-14.41	AVG
7386	52.59	-0.75	51.84	74	-22.16	peak
7386	41.97	-0.75	41.22	54	-12.78	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Remark：
(1) Measuring frequencies from 1 GHz to the 25 GHz.
(2) “F” denotes fundamental frequency; “H” denotes spurious frequency; “E” denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.
(7) All the test modes completed for test. only the worst result of Mode 1 (802.11b Mode)

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Test Result of Radiated Spurious at Band edges

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.52	-5.81	47.71	74	-26.29	peak
2310.00	40.64	-5.81	34.83	54	-19.17	AVG
2390.00	51.45	-5.84	45.61	74	-28.39	peak
2390.00	39.59	-5.84	33.75	54	-20.25	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	54.27	-5.81	48.46	74	-25.54	peak
2310.00	44.17	-5.81	38.36	54	-15.64	AVG
2390.00	51.11	-5.84	45.27	74	-28.73	peak
2390.00	40.58	-5.84	34.74	54	-19.26	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.31	-5.81	46.5	74	-27.5	peak
2483.50	42.37	-5.81	36.56	54	-17.44	AVG
2500.00	50.12	-6.06	44.06	74	-29.94	peak
2500.00	40.35	-6.06	34.29	54	-19.71	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.02	-5.81	46.21	74	-27.79	peak
2483.50	40.34	-5.81	34.53	54	-19.47	AVG
2500.00	50.7	-6.06	44.64	74	-29.36	peak
2500.00	39.21	-6.06	33.15	54	-20.85	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	51.06	-5.81	45.25	74	-28.75	peak
2310.00	44.47	-5.81	38.66	54	-15.34	AVG
2390.00	50.19	-5.84	44.35	74	-29.65	peak
2390.00	40.55	-5.84	34.71	54	-19.29	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.02	-5.81	47.21	74	-26.79	peak
2310.00	44.72	-5.81	38.91	54	-15.09	AVG
2390.00	50.2	-5.84	44.36	74	-29.64	peak
2390.00	40.66	-5.84	34.82	54	-19.18	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.69	-5.65	48.04	74	-25.96	peak
2483.50	42.9	-5.65	37.25	54	-16.75	AVG
2500.00	51.63	-5.65	45.98	74	-28.02	peak
2500.00	41.27	-5.65	35.62	54	-18.38	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.29	-5.65	46.64	74	-27.36	peak
2483.50	44.59	-5.65	38.94	54	-15.06	AVG
2500.00	50.45	-5.65	44.8	74	-29.2	peak
2500.00	41.13	-5.65	35.48	54	-18.52	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Operation Mode: 802.11n/HT20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	55.49	-5.81	49.68	74	-24.32	peak
2310.00	42.07	-5.81	36.26	54	-17.74	AVG
2390.00	51.69	-5.84	45.85	74	-28.15	peak
2390.00	39.31	-5.84	33.47	54	-20.53	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.08	-5.81	47.27	74	-26.73	peak
2310.00	43.28	-5.81	37.47	54	-16.53	AVG
2390.00	51.71	-5.84	45.87	74	-28.13	peak
2390.00	40.23	-5.84	34.39	54	-19.61	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	51.42	-5.65	45.77	74	-28.23	peak
2483.50	42.71	-5.65	37.06	54	-16.94	AVG
2500.00	49.34	-5.65	43.69	74	-30.31	peak
2500.00	40.48	-5.65	34.83	54	-19.17	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.57	-5.65	46.92	74	-27.08	peak
2483.50	41.96	-5.65	36.31	54	-17.69	AVG
2500.00	50.97	-5.65	45.32	74	-28.68	peak
2500.00	39.23	-5.65	33.58	54	-20.42	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Operation Mode: 802.11n/HT40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	54.62	-5.81	48.81	74	-25.19	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	52.75	-5.84	46.91	74	-27.09	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.27	-5.81	47.46	74	-26.54	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	51.31	-5.84	45.47	74	-28.53	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.8	-5.65	48.15	74	-25.85	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	52.9	-5.65	47.25	74	-26.75	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.47	-5.65	46.82	74	-27.18	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	51.61	-5.65	45.96	74	-28.04	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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All the test modes completed for test. only the worst result of Mode 1(802.11b Mode)
Series Model No.: X24 Ultra

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	52.57	-5.81	46.76	74	-27.24	peak
2310.00	40.68	-5.81	34.87	54	-19.13	AVG
2390.00	51.89	-5.84	46.05	74	-27.95	peak
2390.00	39.82	-5.84	33.98	54	-20.02	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.19	-5.81	47.38	74	-26.62	peak
2310.00	43.31	-5.81	37.5	54	-16.5	AVG
2390.00	50.79	-5.84	44.95	74	-29.05	peak
2390.00	40.24	-5.84	34.4	54	-19.6	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.63	-5.81	46.82	74	-27.18	peak
2483.50	41.26	-5.81	35.45	54	-18.55	AVG
2500.00	49.61	-6.06	43.55	74	-30.45	peak
2500.00	40.73	-6.06	34.67	54	-19.33	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.82	-5.81	48.01	74	-25.99	peak
2483.50	40.65	-5.81	34.84	54	-19.16	AVG
2500.00	50.33	-6.06	44.27	74	-29.73	peak
2500.00	38.76	-6.06	32.7	54	-21.3	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Series Model No.: C24 Ultra

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.53	-5.81	47.72	74	-26.28	peak
2310.00	40.94	-5.81	35.13	54	-18.87	AVG
2390.00	50.38	-5.84	44.54	74	-29.46	peak
2390.00	40.66	-5.84	34.82	54	-19.18	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	52.49	-5.81	46.68	74	-27.32	peak
2310.00	44.1	-5.81	38.29	54	-15.71	AVG
2390.00	50.31	-5.84	44.47	74	-29.53	peak
2390.00	40.02	-5.84	34.18	54	-19.82	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.08	-5.81	47.27	74	-26.73	peak
2483.50	42.67	-5.81	36.86	54	-17.14	AVG
2500.00	50.63	-6.06	44.57	74	-29.43	peak
2500.00	41.81	-6.06	35.75	54	-18.25	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.7	-5.81	46.89	74	-27.11	peak
2483.50	41.54	-5.81	35.73	54	-18.27	AVG
2500.00	49.92	-6.06	43.86	74	-30.14	peak
2500.00	40.52	-6.06	34.46	54	-19.54	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Series Model No.: C25

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.41	-5.81	47.6	74	-26.4	peak
2310.00	40.63	-5.81	34.82	54	-19.18	AVG
2390.00	52.26	-5.84	46.42	74	-27.58	peak
2390.00	40.49	-5.84	34.65	54	-19.35	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.26	-5.81	47.45	74	-26.55	peak
2310.00	43.97	-5.81	38.16	54	-15.84	AVG
2390.00	50.08	-5.84	44.24	74	-29.76	peak
2390.00	39.96	-5.84	34.12	54	-19.88	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.03	-5.81	47.22	74	-26.78	peak
2483.50	43.15	-5.81	37.34	54	-16.66	AVG
2500.00	49.57	-6.06	43.51	74	-30.49	peak
2500.00	41.06	-6.06	35	54	-19	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.22	-5.81	47.41	74	-26.59	peak
2483.50	41.22	-5.81	35.41	54	-18.59	AVG
2500.00	49.89	-6.06	43.83	74	-30.17	peak
2500.00	39.49	-6.06	33.43	54	-20.57	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Series Model No.: I15 Ultra

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.32	-5.81	47.51	74	-26.49	peak
2310.00	41.93	-5.81	36.12	54	-17.88	AVG
2390.00	51.98	-5.84	46.14	74	-27.86	peak
2390.00	40.59	-5.84	34.75	54	-19.25	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.37	-5.81	47.56	74	-26.44	peak
2310.00	43.24	-5.81	37.43	54	-16.57	AVG
2390.00	50.36	-5.84	44.52	74	-29.48	peak
2390.00	39.65	-5.84	33.81	54	-20.19	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.63	-5.81	47.82	74	-26.18	peak
2483.50	42.07	-5.81	36.26	54	-17.74	AVG
2500.00	49.15	-6.06	43.09	74	-30.91	peak
2500.00	40.92	-6.06	34.86	54	-19.14	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.28	-5.81	46.47	74	-27.53	peak
2483.50	41.68	-5.81	35.87	54	-18.13	AVG
2500.00	50.83	-6.06	44.77	74	-29.23	peak
2500.00	39.76	-6.06	33.7	54	-20.3	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Series Model No.: C7 Ultra

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	53.81	-5.81	48	74	-26	peak
2310.00	41.41	-5.81	35.6	54	-18.4	AVG
2390.00	50.85	-5.84	45.01	74	-28.99	peak
2390.00	39.54	-5.84	33.7	54	-20.3	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	52.57	-5.81	46.76	74	-27.24	peak
2310.00	44.62	-5.81	38.81	54	-15.19	AVG
2390.00	50.78	-5.84	44.94	74	-29.06	peak
2390.00	40.11	-5.84	34.27	54	-19.73	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.81	-5.81	47	74	-27	peak
2483.50	41.69	-5.81	35.88	54	-18.12	AVG
2500.00	49.64	-6.06	43.58	74	-30.42	peak
2500.00	40.65	-6.06	34.59	54	-19.41	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.69	-5.81	46.88	74	-27.12	peak
2483.50	40.54	-5.81	34.73	54	-19.27	AVG
2500.00	50.84	-6.06	44.78	74	-29.22	peak
2500.00	40.11	-6.06	34.05	54	-19.95	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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Series Model No.: S24 Ultra

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	52.5	-5.81	46.69	74	-27.31	peak
2310.00	42.41	-5.81	36.6	54	-17.4	AVG
2390.00	51.28	-5.84	45.44	74	-28.56	peak
2390.00	38.99	-5.84	33.15	54	-20.85	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	54.35	-5.81	48.54	74	-25.46	peak
2310.00	44.95	-5.81	39.14	54	-14.86	AVG
2390.00	51.91	-5.84	46.07	74	-27.93	peak
2390.00	40.21	-5.84	34.37	54	-19.63	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.4	-5.81	46.59	74	-27.41	peak
2483.50	42.21	-5.81	36.4	54	-17.6	AVG
2500.00	50.57	-6.06	44.51	74	-29.49	peak
2500.00	42.06	-6.06	36	54	-18	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.58	-5.81	47.77	74	-26.23	peak
2483.50	40.48	-5.81	34.67	54	-19.33	AVG
2500.00	50.73	-6.06	44.67	74	-29.33	peak
2500.00	39.13	-6.06	33.07	54	-20.93	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

Remark:
1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. All the test modes completed for test. only the worst result of Mode 1 (802.11b Mode)

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4.8. Antenna Requirement

Standard Applicable
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction
The antenna used in this product is a FPC Antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0.72dBi.

Antenna

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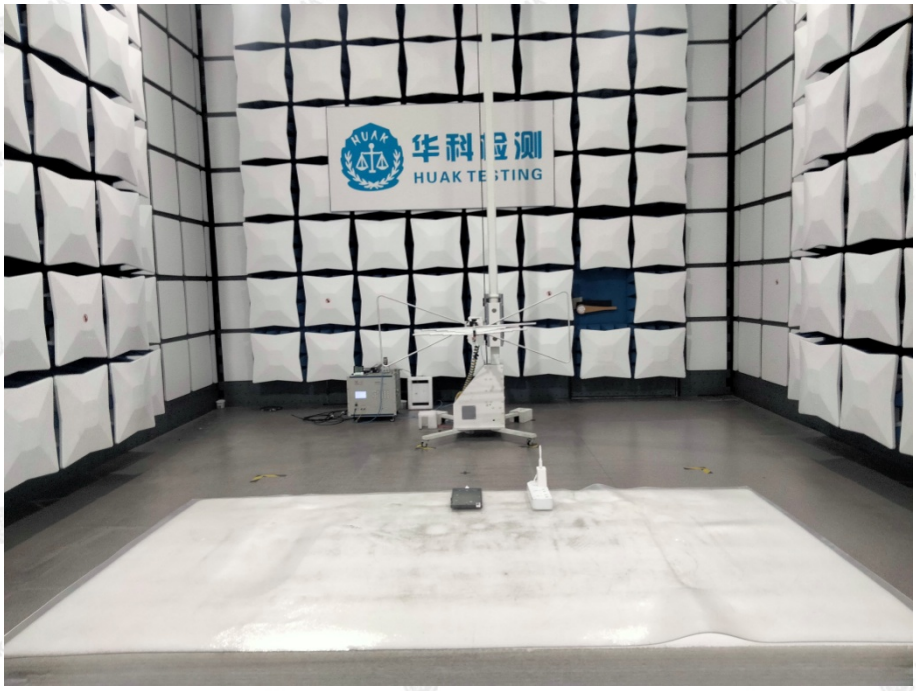
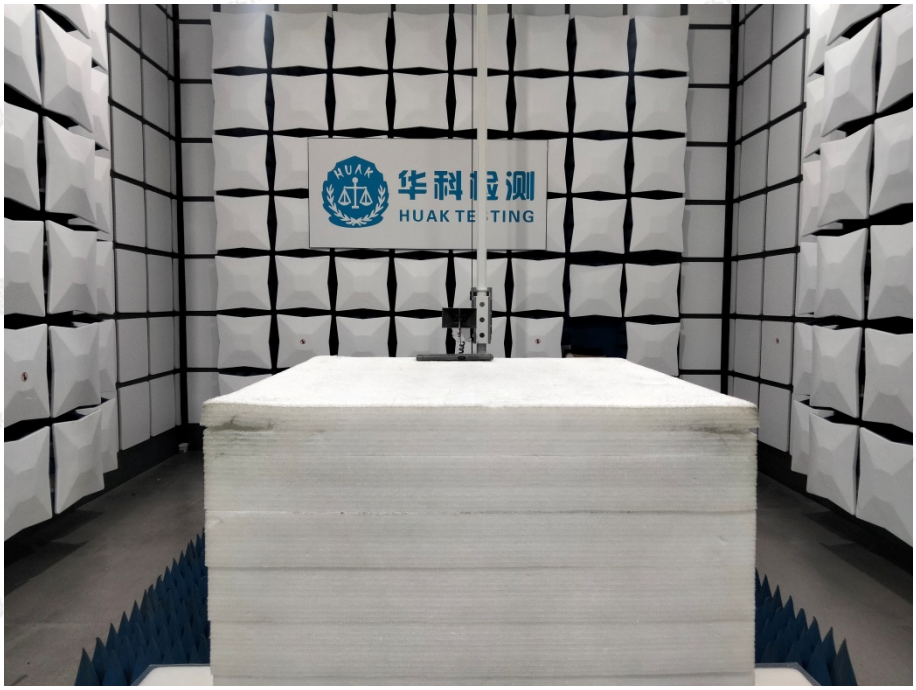
5. Test Setup Photos of the EUT

Test Model No.: S25 Ultra
Radiated Emissions





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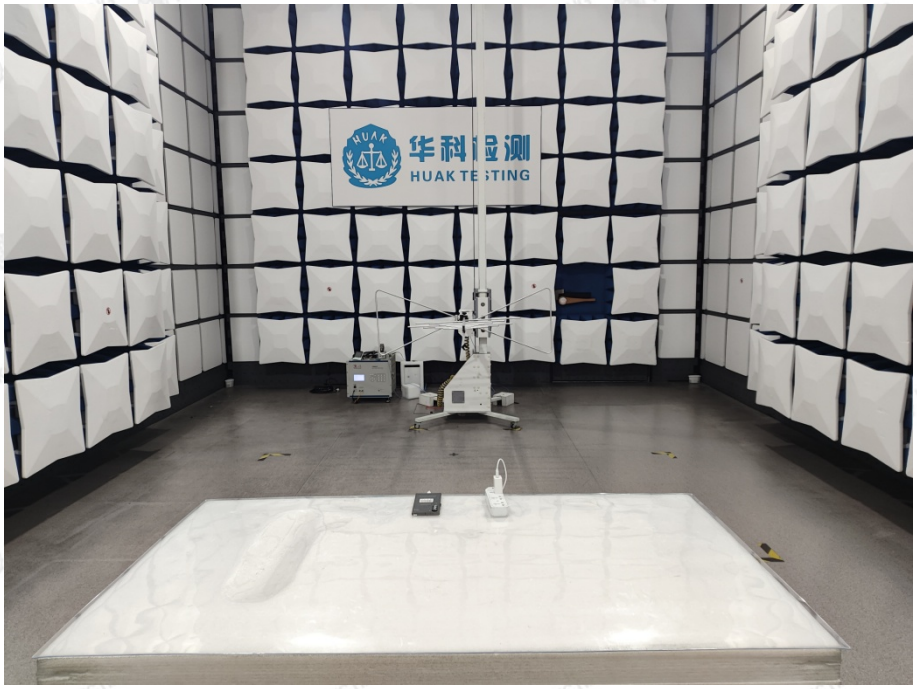
Conducted Emission

Series Model No.: X24 Ultra
Radiated Emissions



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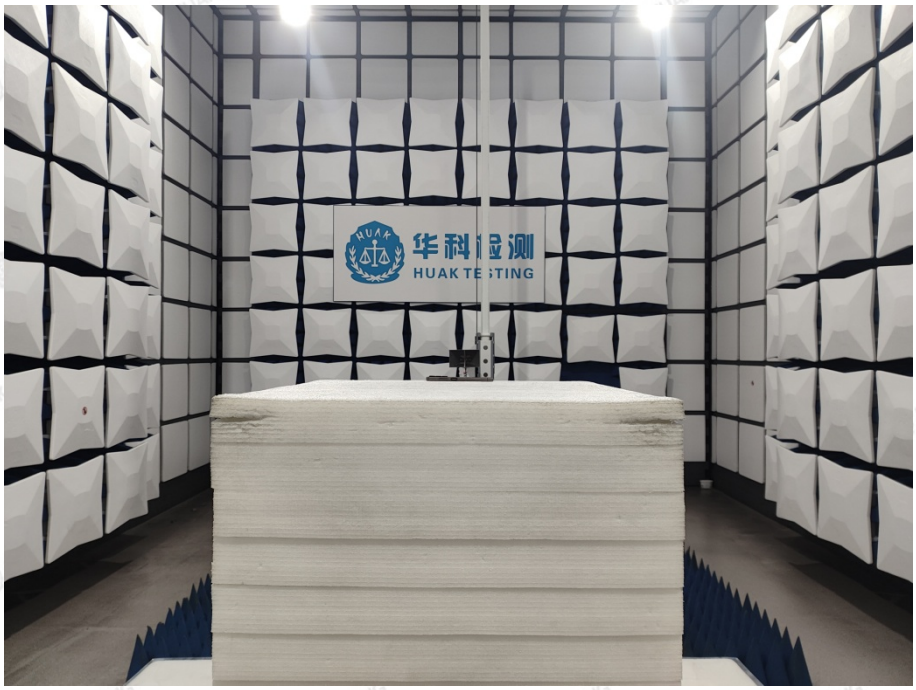

Conducted Emission

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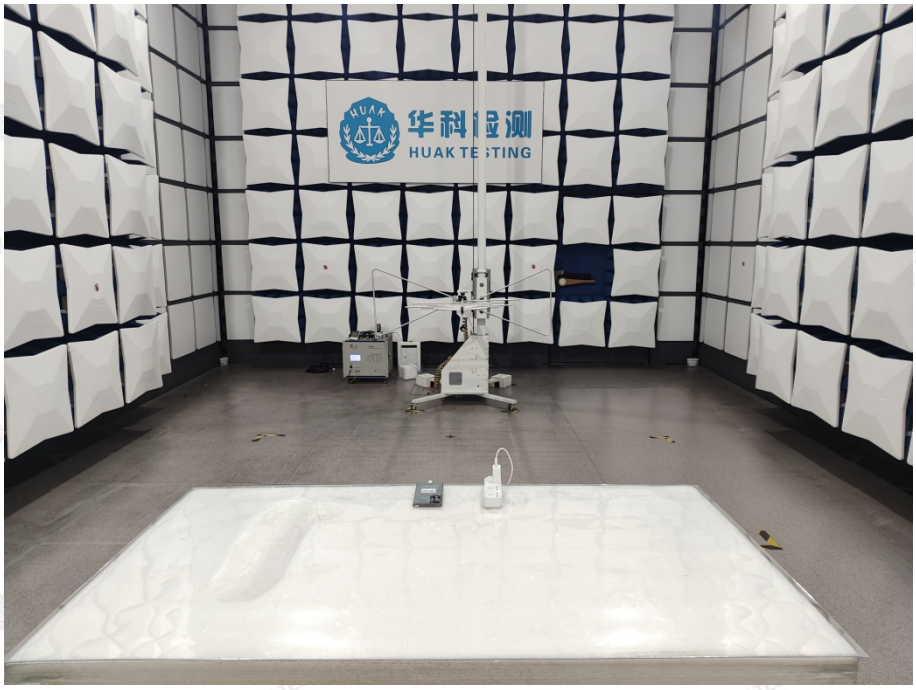
Series Model No.: C24 Ultra
Radiated Emissions



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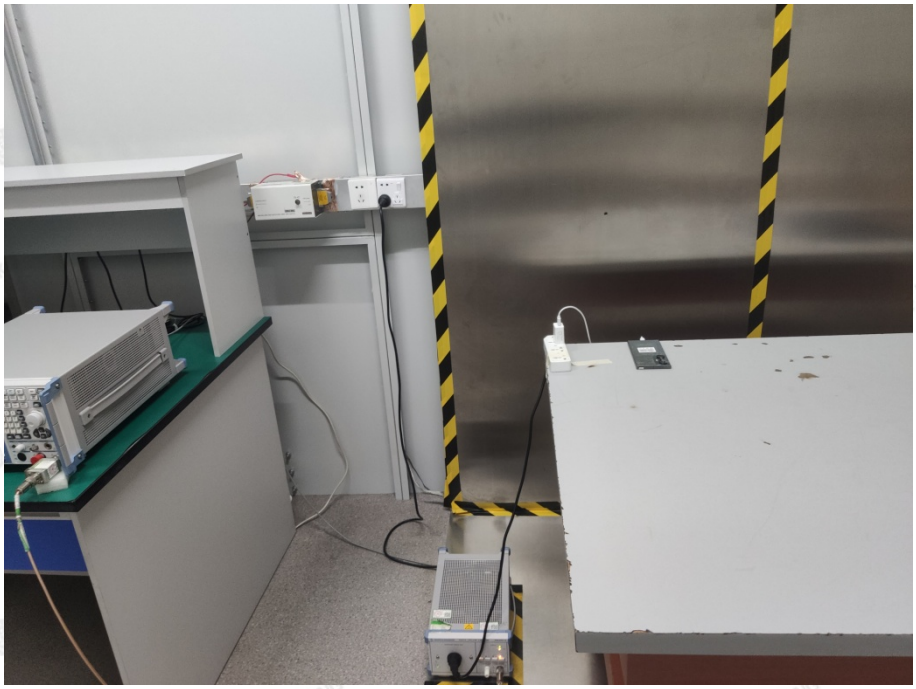
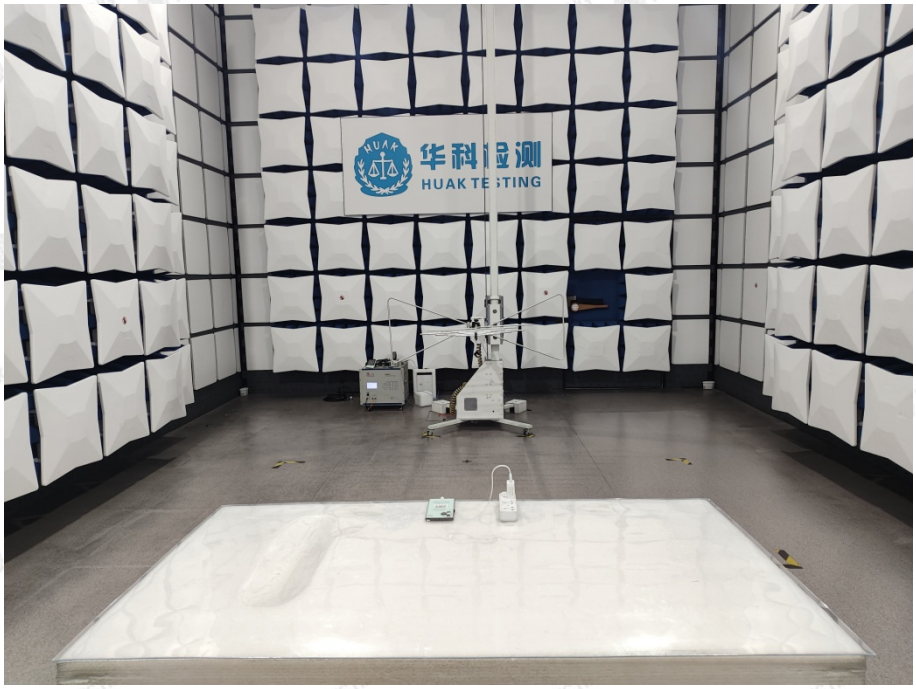
Conducted Emission



Series Model No.: C25
Radiated Emissions



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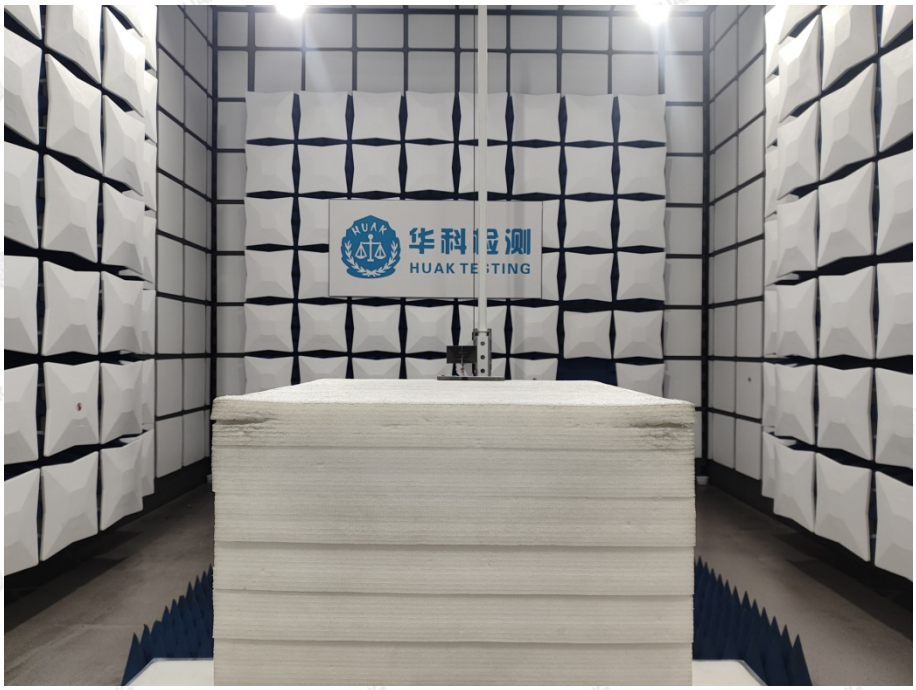

Conducted Emission

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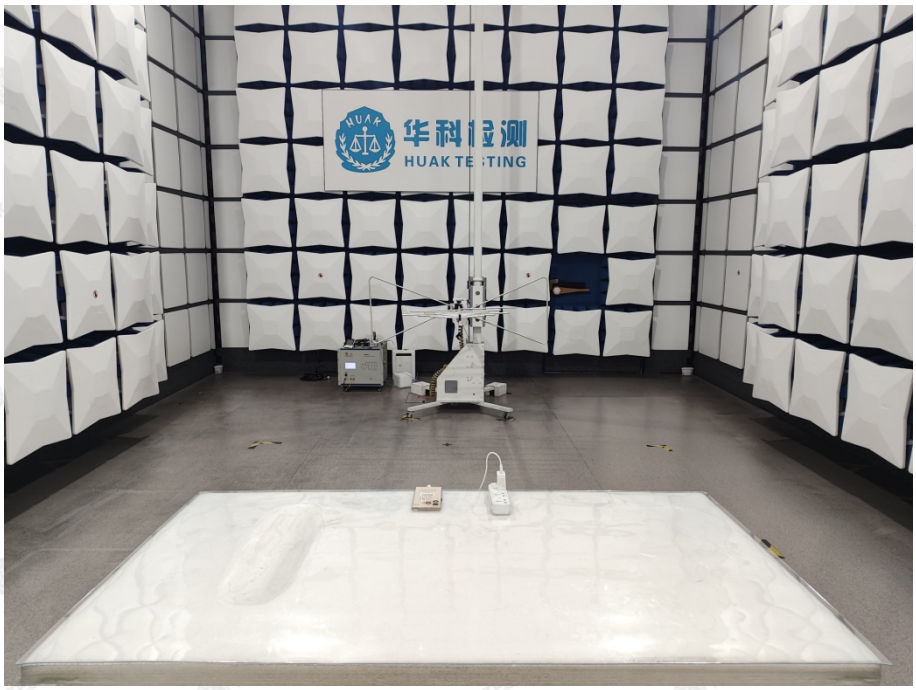
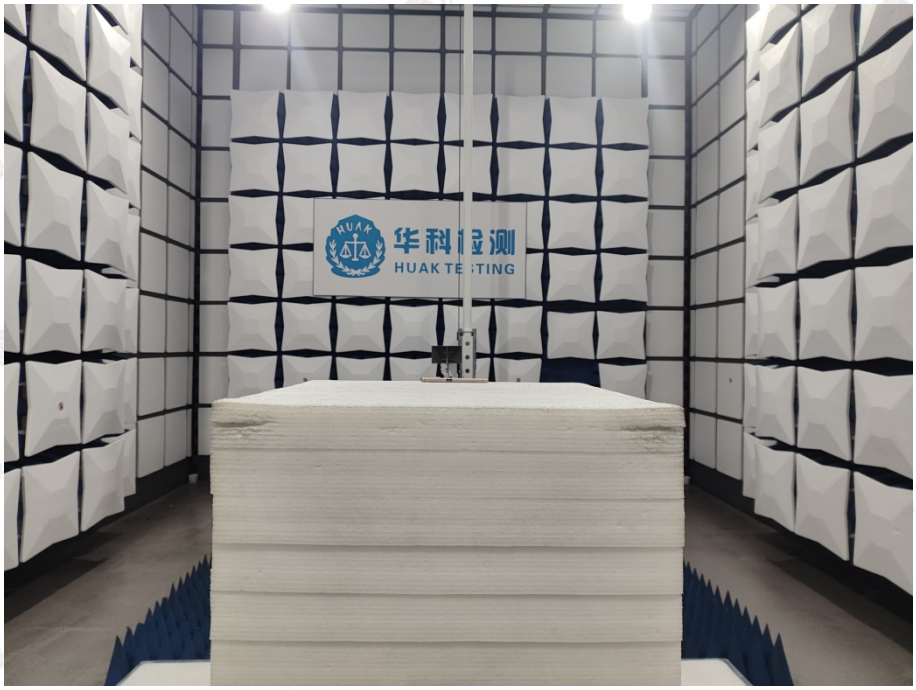
Series Model No.: I15 Ultra
Radiated Emissions





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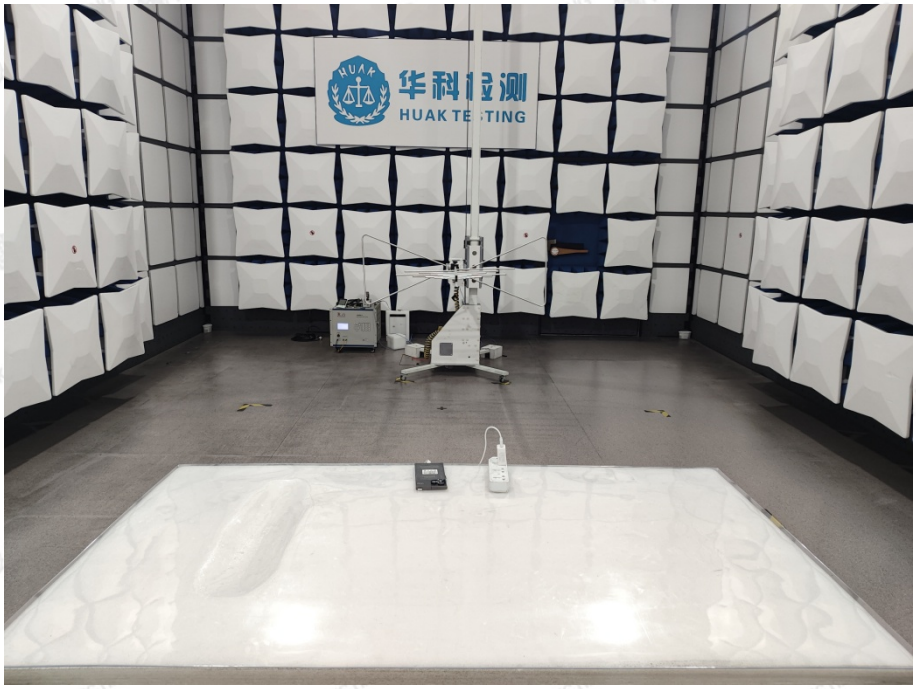
Conducted Emission

Series Model No.: C7 Ultra
Radiated Emissions



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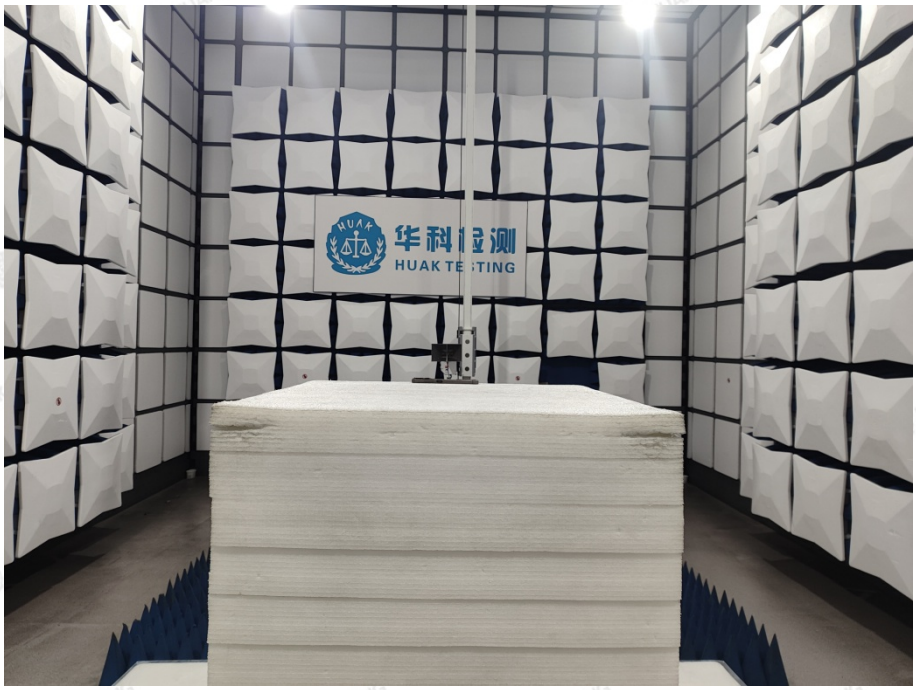

Conducted Emission

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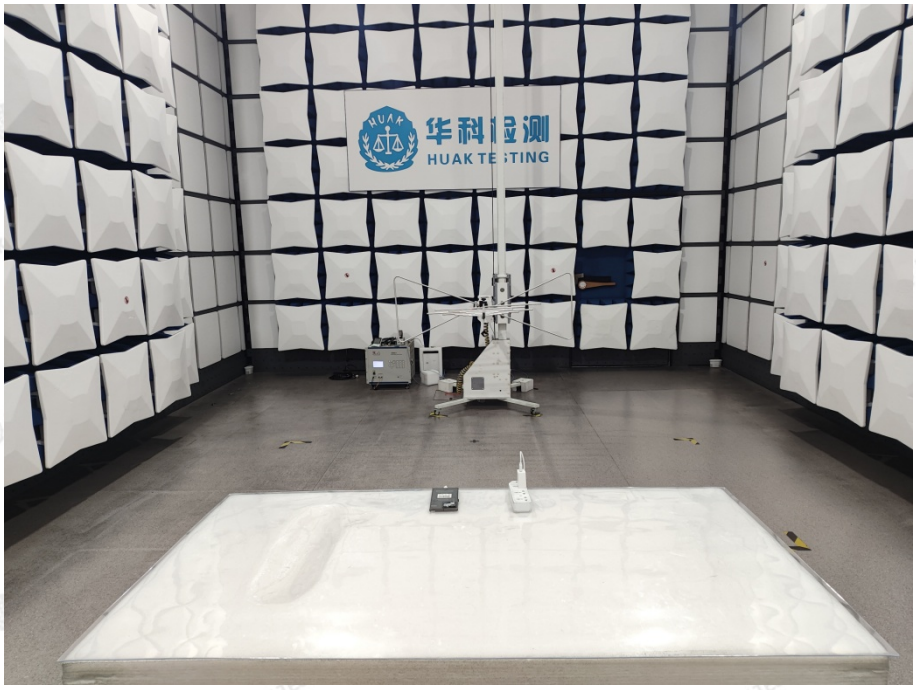
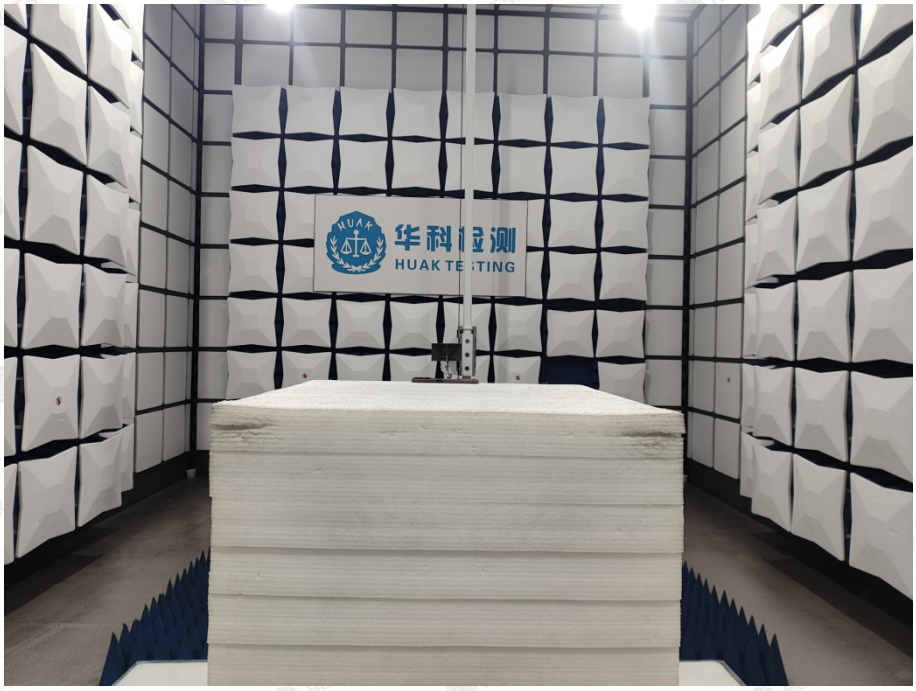
Series Model No.: S24 Ultra
Radiated Emissions





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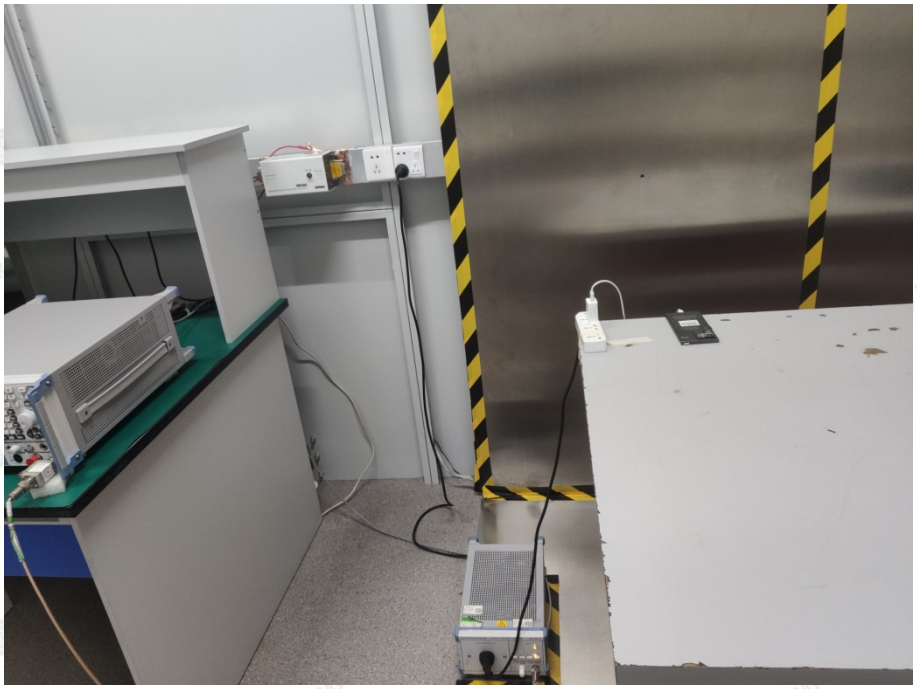
Conducted Emission



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6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

---------End of test report---------

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