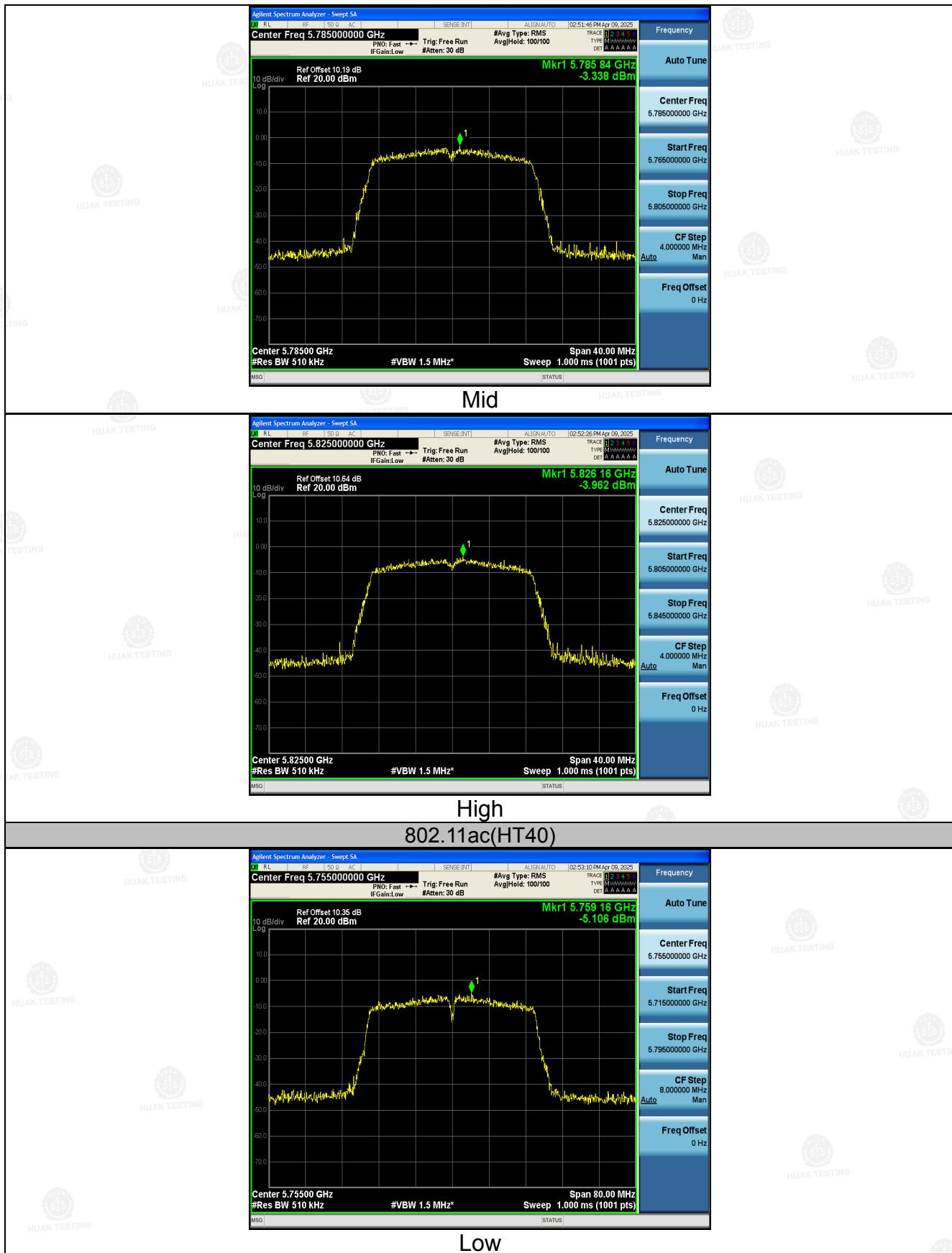




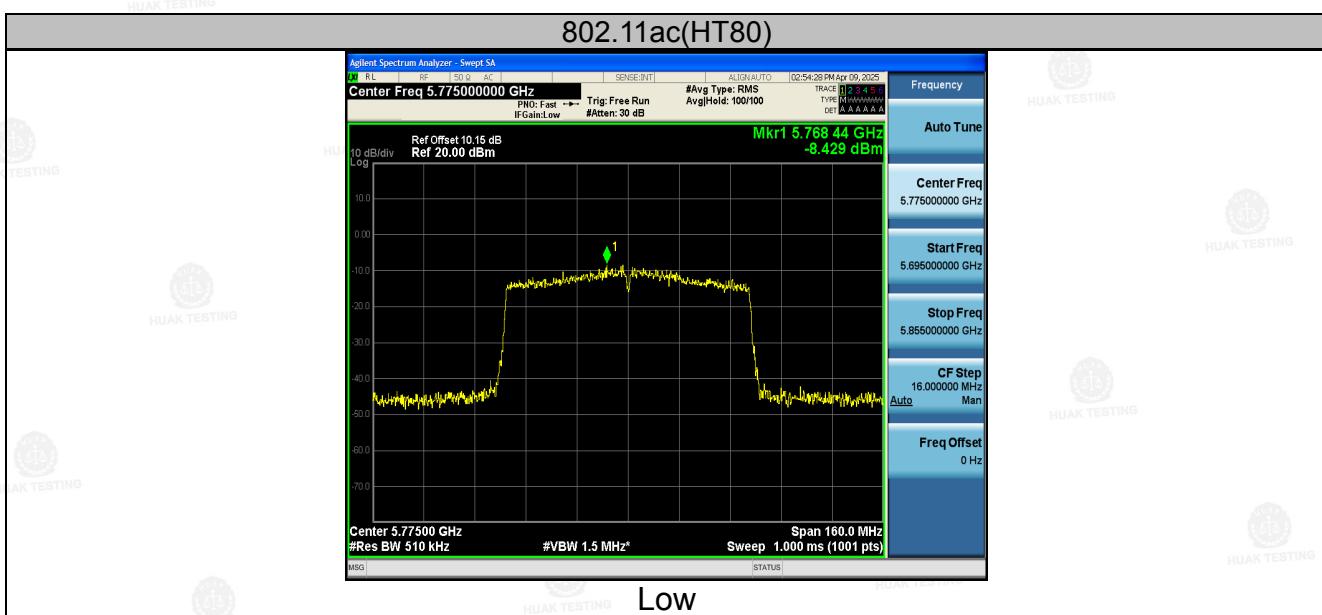
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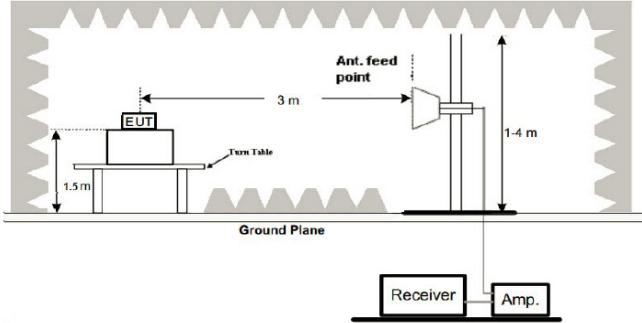
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4.6. Band Edge

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	<p>(1) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.</p>
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.
Test Result:	PASS

4.6.2. Test Instruments

Radiated Emission Test Site (966)

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	Feb. 18, 2026
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	Feb. 18, 2026
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	Feb. 18, 2026
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.6.3. Test Data

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	52.19	-2.06	50.13	68.2	-18.07	peak
5700	81.21	-1.96	79.25	105.2	-25.95	peak
5720	85.88	-2.87	83.01	110.8	-27.79	peak
5725	101.27	-2.14	99.13	122.2	-23.07	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level- limit

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	50.21	-2.06	48.15	68.2	-20.05	peak
5700	78.62	-1.96	76.66	105.2	-28.54	peak
5720	84.68	-2.87	81.81	110.8	-28.99	peak
5725	100.36	-2.14	98.22	122.2	-23.98	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level – limit



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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.63	-1.97	99.66	122.2	-22.54	peak
5855	83.97	-2.13	81.84	110.8	-28.96	peak
5875	83.93	-2.65	81.28	105.2	-23.92	peak
5925	50.55	-2.28	48.27	68.2	-19.93	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	95.25	-1.97	93.28	122.2	-28.92	peak
5855	86.4	-2.13	84.27	110.8	-26.53	peak
5875	78.02	-2.65	75.37	105.2	-29.83	peak
5925	52.41	-2.28	50.13	68.2	-18.07	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: 802.11n/HT20 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	52.13	-2.06	50.07	68.2	-18.13	peak
5700	81.81	-1.96	79.85	105.2	-25.35	peak
5720	92.43	-2.87	89.56	110.8	-21.24	peak
5725	106.56	-2.14	104.42	122.2	-17.78	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	52.8	-2.06	50.74	68.2	-17.46	peak
5700	89.18	-1.96	87.22	105.2	-17.98	peak
5720	93.28	-2.87	90.41	110.8	-20.39	peak
5725	103.25	-2.14	101.11	122.2	-21.09	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.83	-1.97	99.86	122.2	-22.34	peak
5855	89.16	-2.13	87.03	110.8	-23.77	peak
5875	84.04	-2.65	81.39	105.2	-23.81	peak
5925	50.57	-2.28	48.29	68.2	-19.91	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	98.78	-1.97	96.81	122.2	-25.39	peak
5855	85.75	-2.13	83.62	110.8	-27.18	peak
5875	81.52	-2.65	78.87	105.2	-26.33	peak
5925	50.15	-2.28	47.87	68.2	-20.33	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: 802.11n/HT40 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	52.87	-2.06	50.81	68.2	-17.39	peak
5700	89.48	-1.96	87.52	105.2	-17.68	peak
5720	84.22	-2.87	81.35	110.8	-29.45	peak
5725	103.26	-2.14	101.12	122.2	-21.08	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	50.37	-2.06	48.31	68.2	-19.89	peak
5700	87.46	-1.96	85.5	105.2	-19.7	peak
5720	83.35	-2.87	80.48	110.8	-30.32	peak
5725	101.42	-2.14	99.28	122.2	-22.92	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	98.09	-1.97	96.12	122.2	-26.08	peak
5855	85.21	-2.13	83.08	110.8	-27.72	peak
5875	82.91	-2.65	80.26	105.2	-24.94	peak
5925	51.26	-2.28	48.98	68.2	-19.22	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.82	-1.97	99.85	122.2	-22.35	peak
5855	91.28	-2.13	89.15	110.8	-21.65	peak
5875	84.12	-2.65	81.47	105.2	-23.73	peak
5925	51.23	-2.28	48.95	68.2	-19.25	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: 802.11ac/HT20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	51.91	-2.06	49.85	68.2	-18.35	peak
5700	76.99	-1.96	75.03	105.2	-30.17	peak
5720	87.53	-2.87	84.66	110.8	-26.14	peak
5725	101.57	-2.14	99.43	122.2	-22.77	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	50.06	-2.06	48	68.2	-20.2	peak
5700	83.51	-1.96	81.55	105.2	-23.65	peak
5720	87.53	-2.87	84.66	110.8	-26.14	peak
5725	101.35	-2.14	99.21	122.2	-22.99	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	99.93	-1.97	97.96	122.2	-24.24	peak
5855	86.64	-2.13	84.51	110.8	-26.29	peak
5875	77.43	-2.65	74.78	105.2	-30.42	peak
5925	51.81	-2.28	49.53	68.2	-18.67	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.75	-1.97	99.78	122.2	-22.42	peak
5855	86.43	-2.13	84.3	110.8	-26.5	peak
5875	76.31	-2.65	73.66	105.2	-31.54	peak
5925	50.48	-2.28	48.2	68.2	-20	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: 802.11ac/HT40 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	50.98	-2.06	48.92	68.2	-19.28	peak
5700	77.68	-1.96	75.72	105.2	-29.48	peak
5720	88.43	-2.87	85.56	110.8	-25.24	peak
5725	101.33	-2.14	99.19	122.2	-23.01	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	49.66	-2.06	47.6	68.2	-20.6	peak
5700	83.64	-1.96	81.68	105.2	-23.52	peak
5720	91.06	-2.87	88.19	110.8	-22.61	peak
5725	101.99	-2.14	99.85	122.2	-22.35	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	98.8	-1.97	96.83	122.2	-25.37	peak
5855	85.03	-2.13	82.9	110.8	-27.9	peak
5875	80.41	-2.65	77.76	105.2	-27.44	peak
5925	50.29	-2.28	48.01	68.2	-20.19	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	109.27	-1.97	107.3	122.2	-14.9	peak
5855	87.26	-2.13	85.13	110.8	-25.67	peak
5875	81.33	-2.65	78.68	105.2	-26.52	peak
5925	52.34	-2.28	50.06	68.2	-18.14	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: 802.11ac/HT80 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	52.01	-2.06	49.95	68.2	-18.25	peak
5700	81.52	-1.96	79.56	105.2	-25.64	peak
5720	86.93	-2.87	84.06	110.8	-26.74	peak
5725	101.74	-2.14	99.6	122.2	-22.6	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	52.14	-2.06	50.08	68.2	-18.12	peak
5700	84.02	-1.96	82.06	105.2	-23.14	peak
5720	85.16	-2.87	82.29	110.8	-28.51	peak
5725	103.03	-2.14	100.89	122.2	-21.31	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	105.99	-1.97	104.02	122.2	-18.18	peak
5855	86.21	-2.13	84.08	110.8	-26.72	peak
5875	82.93	-2.65	80.28	105.2	-24.92	peak
5925	50.4	-2.28	48.12	68.2	-20.08	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	100.32	-1.97	98.35	122.2	-23.85	peak
5855	88.28	-2.13	86.15	110.8	-24.65	peak
5875	82.14	-2.65	79.49	105.2	-25.71	peak
5925	52.52	-2.28	50.24	68.2	-17.96	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)

Series Model No.: S26 Ultra

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	47.56	-2.06	45.5	68.2	-22.7	peak
5700	80.58	-1.96	78.62	105.2	-26.58	peak
5720	86.82	-2.87	83.95	110.8	-26.85	peak
5725	98.72	-2.14	96.58	122.2	-25.62	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	49.74	-2.06	47.68	68.2	-20.52	peak
5700	76.9	-1.96	74.94	105.2	-30.26	peak
5720	84.35	-2.87	81.48	110.8	-29.32	peak
5725	98.22	-2.14	96.08	122.2	-26.12	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.01	-1.97	99.04	122.2	-23.16	peak
5855	82.06	-2.13	79.93	110.8	-30.87	peak
5875	81.44	-2.65	78.79	105.2	-26.41	peak
5925	49.88	-2.28	47.6	68.2	-20.6	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	92.67	-1.97	90.7	122.2	-31.5	peak
5855	85.95	-2.13	83.82	110.8	-26.98	peak
5875	76.83	-2.65	74.18	105.2	-31.02	peak
5925	52.8	-2.28	50.52	68.2	-17.68	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

Series Model No.: Pixel 9

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
5650	48.66	-2.06	46.6	68.2	-21.6	peak
5700	80.46	-1.96	78.5	105.2	-26.7	peak
5720	86.46	-2.87	83.59	110.8	-27.21	peak
5725	99.98	-2.14	97.84	122.2	-24.36	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
5650	50.18	-2.06	48.12	68.2	-20.08	peak
5700	76.27	-1.96	74.31	105.2	-30.89	peak
5720	85.45	-2.87	82.58	110.8	-28.22	peak
5725	100.61	-2.14	98.47	122.2	-23.73	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	100.94	-1.97	98.97	122.2	-23.23	peak
5855	83.77	-2.13	81.64	110.8	-29.16	peak
5875	81.82	-2.65	79.17	105.2	-26.03	peak
5925	49.64	-2.28	47.36	68.2	-20.84	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	94.68	-1.97	92.71	122.2	-29.49	peak
5855	85.72	-2.13	83.59	110.8	-27.21	peak
5875	76.8	-2.65	74.15	105.2	-31.05	peak
5925	51.04	-2.28	48.76	68.2	-19.44	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

Series Model No.: SP30 Pro
Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	49.25	-2.06	47.19	68.2	-21.01	peak
5700	80.35	-1.96	78.39	105.2	-26.81	peak
5720	83.96	-2.87	81.09	110.8	-29.71	peak
5725	100.88	-2.14	98.74	122.2	-23.46	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	50.43	-2.06	48.37	68.2	-19.83	peak
5700	76.44	-1.96	74.48	105.2	-30.72	peak
5720	85.55	-2.87	82.68	110.8	-28.12	peak
5725	98.83	-2.14	96.69	122.2	-25.51	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.89	-1.97	99.92	122.2	-22.28	peak
5855	80.16	-2.13	78.03	110.8	-32.77	peak
5875	82.72	-2.65	80.07	105.2	-25.13	peak
5925	49.67	-2.28	47.39	68.2	-20.81	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	96.29	-1.97	94.32	122.2	-27.88	peak
5855	87.37	-2.13	85.24	110.8	-25.56	peak
5875	76.41	-2.65	73.76	105.2	-31.44	peak
5925	52.46	-2.28	50.18	68.2	-18.02	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Series Model No.: MT Ultimate
 Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	49.4	-2.06	47.34	68.2	-20.86	peak
5700	80.49	-1.96	78.53	105.2	-26.67	peak
5720	85.98	-2.87	83.11	110.8	-27.69	peak
5725	100.05	-2.14	97.91	122.2	-24.29	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	49.21	-2.06	47.15	68.2	-21.05	peak
5700	75.65	-1.96	73.69	105.2	-31.51	peak
5720	84.02	-2.87	81.15	110.8	-29.65	peak
5725	100.18	-2.14	98.04	122.2	-24.16	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	101.38	-1.97	99.41	122.2	-22.79	peak
5855	84.22	-2.13	82.09	110.8	-28.71	peak
5875	82.06	-2.65	79.41	105.2	-25.79	peak
5925	52.23	-2.28	49.95	68.2	-18.25	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	94.47	-1.97	92.5	122.2	-29.7	peak
5855	85.92	-2.13	83.79	110.8	-27.01	peak
5875	77.13	-2.65	74.48	105.2	-30.72	peak
5925	52.77	-2.28	50.49	68.2	-17.71	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	50.35	-2.06	48.29	68.2	-19.91	peak
5700	80.08	-1.96	78.12	105.2	-27.08	peak
5720	84.31	-2.87	81.44	110.8	-29.36	peak
5725	99.83	-2.14	97.69	122.2	-24.51	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	50.55	-2.06	48.49	68.2	-19.71	peak
5700	77.64	-1.96	75.68	105.2	-29.52	peak
5720	85.22	-2.87	82.35	110.8	-28.45	peak
5725	99.39	-2.14	97.25	122.2	-24.95	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	100.94	-1.97	98.97	122.2	-23.23	peak
5855	83.12	-2.13	80.99	110.8	-29.81	peak
5875	82.35	-2.65	79.7	105.2	-25.5	peak
5925	48.97	-2.28	46.69	68.2	-21.51	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5850	93.4	-1.97	91.43	122.2	-30.77	peak
5855	85.97	-2.13	83.84	110.8	-26.96	peak
5875	76.19	-2.65	73.54	105.2	-31.66	peak
5925	51.09	-2.28	48.81	68.2	-19.39	peak

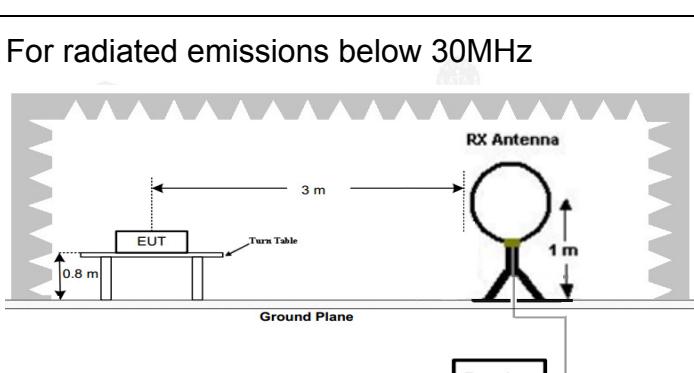
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

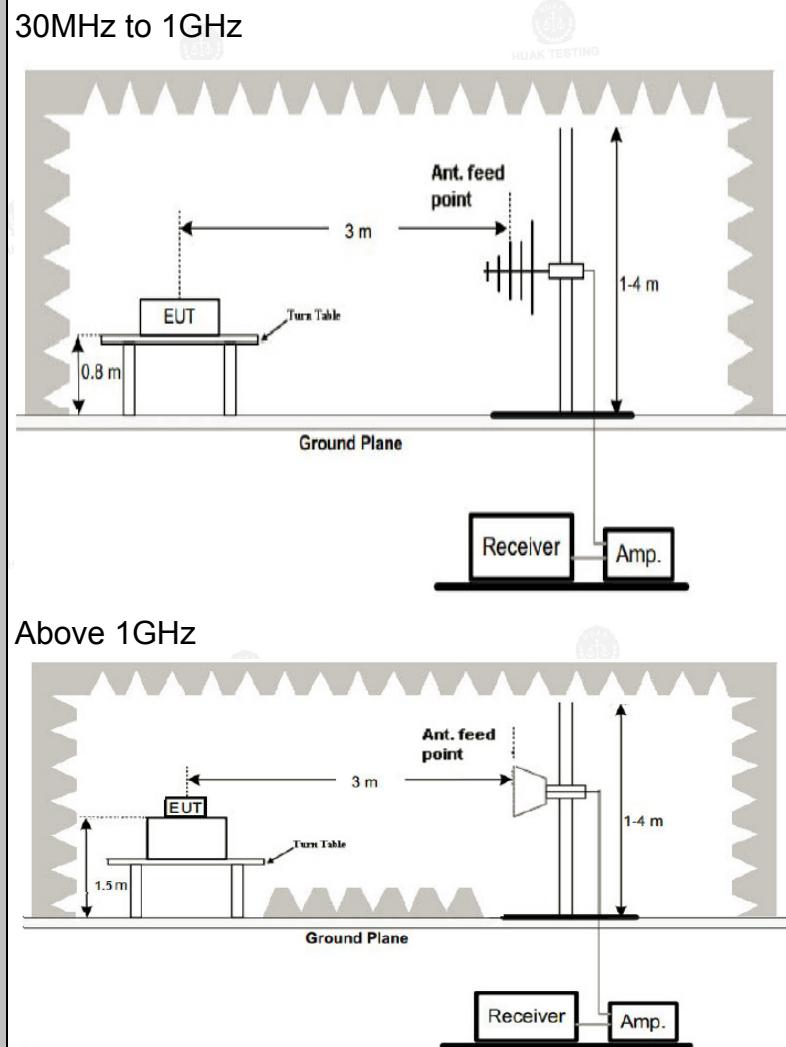
1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4.7. Spurious Emission

4.7.1.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205																													
Test Method:	KDB 789033 D02 v02r01																													
Frequency Range:	9kHz to 40GHz																													
Measurement Distance:	3 m																													
Antenna Polarization:	Horizontal & Vertical																													
Operation mode:	Transmitting mode with modulation																													
Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr> <tr> <td>150kHz- 30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr> <tr> <td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr> <tr> <td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr> <tr> <td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark																										
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value																										
150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value																										
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value																										
Above 1GHz	Peak	1MHz	3MHz	Peak Value																										
	Peak	1MHz	10Hz	Average Value																										
Limit:	<p>(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.</p>																													
Test setup:	<p>For radiated emissions below 30MHz</p> 																													

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Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.



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5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test results:	PASS
----------------------	------



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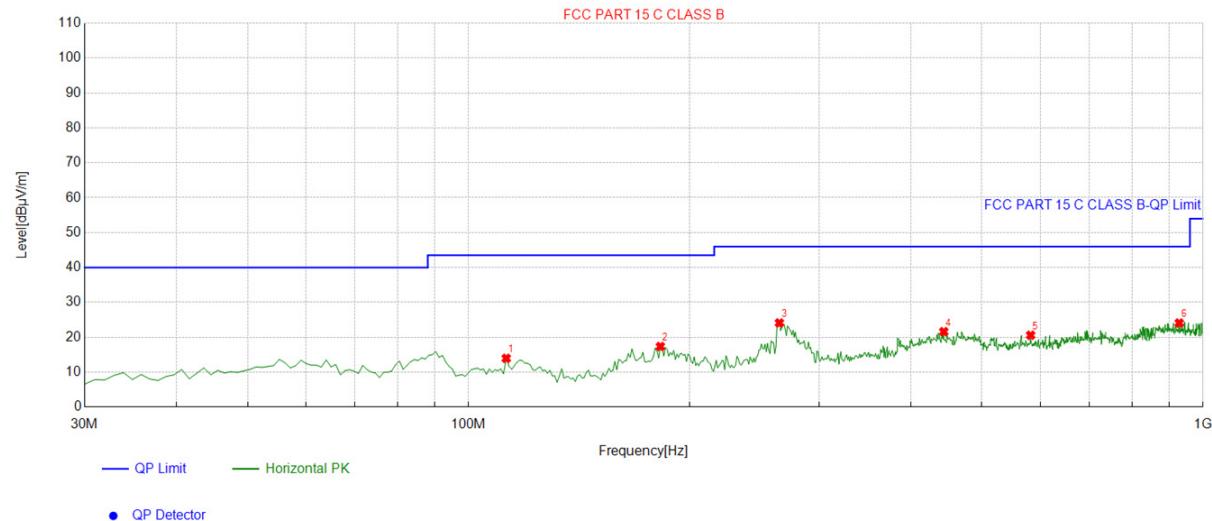
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4.7.2. Test Data

All the test modes completed for test. The worst case of Radiated Emission; the test data of this mode was reported.

Below 1GHz

Test Model No.: I16 Pro max
Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	112.53253	-14.72	28.69	13.97	43.50	29.53	100	198	Horizontal
2	182.44244	-15.91	33.27	17.36	43.50	26.14	100	60	Horizontal
3	264.97497	-13.11	37.22	24.11	46.00	21.89	100	246	Horizontal
4	443.63363	-8.65	30.25	21.60	46.00	24.40	100	168	Horizontal
5	582.48248	-5.69	26.28	20.59	46.00	25.41	100	39	Horizontal
6	928.14814	-1.08	25.16	24.08	46.00	21.92	100	140	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



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Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.983984	-14.38	43.97	29.59	40.00	10.41	100	149	Vertical
2	85.345345	-17.82	45.18	27.36	40.00	12.64	100	183	Vertical
3	175.64564	-16.78	35.56	18.78	43.50	24.72	100	113	Vertical
4	268.85885	-12.63	27.76	15.13	46.00	30.87	100	18	Vertical
5	412.56256	-9.45	29.93	20.48	46.00	25.52	100	238	Vertical
6	794.15415	-3.45	25.55	22.10	46.00	23.90	100	212	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
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Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



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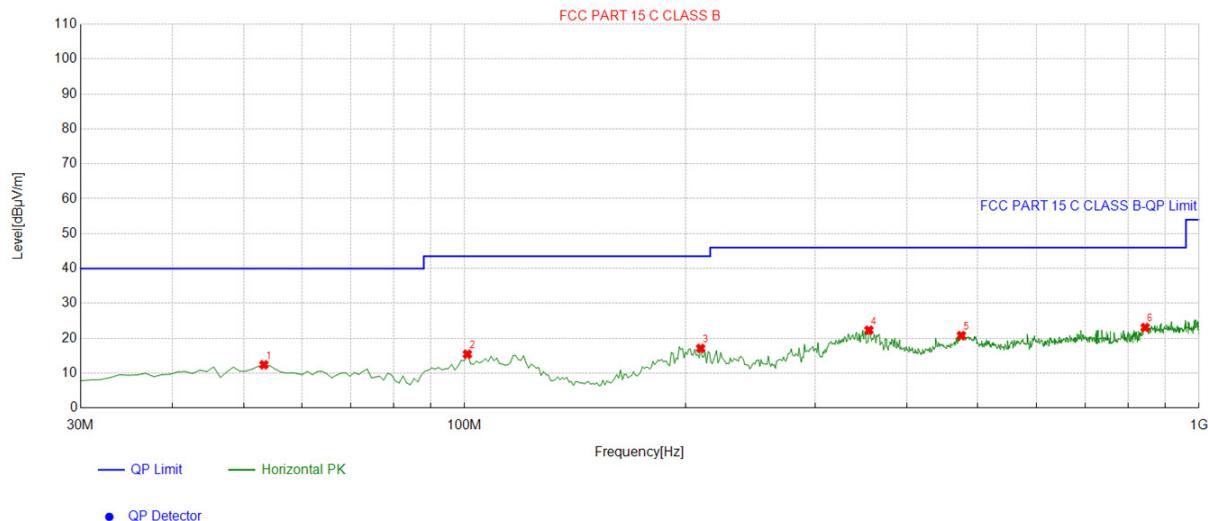
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Series Model No.: S26 Ultra

Horizontal



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.303303	-13.66	26.06	12.40	40.00	27.60	100	2	Horizontal
2	100.88088	-14.60	30.04	15.44	43.50	28.06	100	357	Horizontal
3	209.62963	-14.93	32.04	17.11	43.50	26.39	100	233	Horizontal
4	355.27527	-10.23	32.55	22.32	46.00	23.68	100	248	Horizontal
5	474.70470	-8.23	29.01	20.78	46.00	25.22	100	294	Horizontal
6	844.64464	-1.53	24.63	23.10	46.00	22.90	100	149	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	66.896897	-16.17	41.78	25.61	40.00	14.39	100	102	Vertical
2	93.113113	-15.92	39.00	23.08	43.50	20.42	100	312	Vertical
3	201.86186	-15.19	32.09	16.90	43.50	26.60	100	337	Vertical
4	346.53653	-10.10	28.72	18.62	46.00	27.38	100	235	Vertical
5	484.41441	-7.98	31.77	23.79	46.00	22.21	100	266	Vertical
6	836.87687	-2.49	25.88	23.39	46.00	22.61	100	229	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
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--	--	--
--	--	--
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Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



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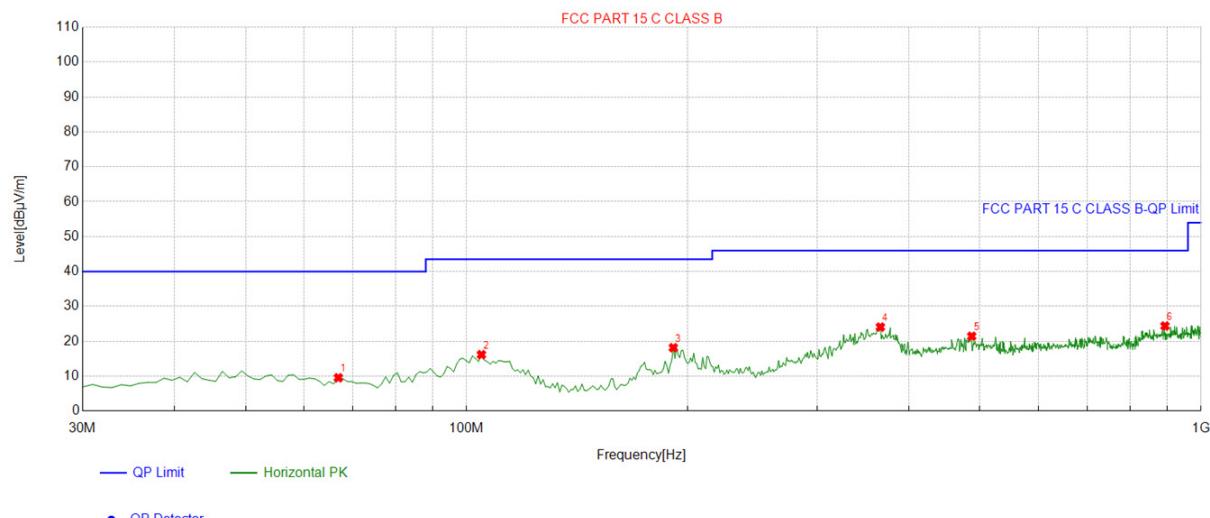
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Series Model No.: Pixel 9®

Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	66.896897	-16.17	25.71	9.54	40.00	30.46	100	316	Horizontal
2	104.76476	-14.69	30.86	16.17	43.50	27.33	100	342	Horizontal
3	191.18118	-15.86	34.02	18.16	43.50	25.34	100	50	Horizontal
4	365.95595	-9.63	33.70	24.07	46.00	21.93	100	258	Horizontal
5	487.32732	-7.91	29.35	21.44	46.00	24.56	100	131	Horizontal
6	893.19319	-1.30	25.67	24.37	46.00	21.63	100	354	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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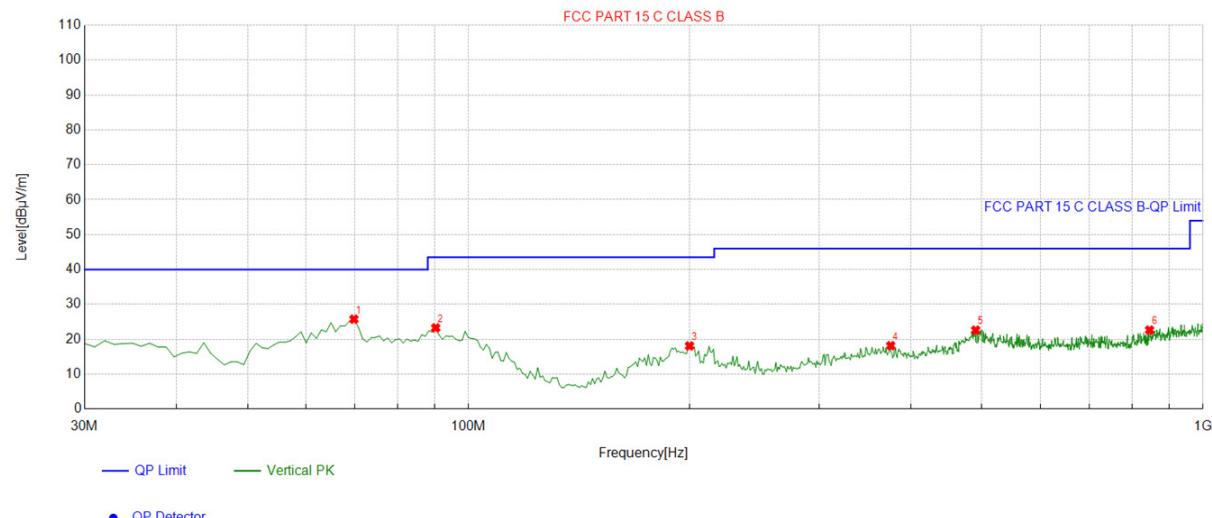
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Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	69.80981	-16.89	42.64	25.75	40.00	14.25	100	272	Vertical
2	90.2002	-16.68	39.95	23.27	43.50	20.23	100	217	Vertical
3	199.91992	-15.09	33.19	18.10	43.50	25.40	100	359	Vertical
4	375.66566	-9.80	27.96	18.16	46.00	27.84	100	31	Vertical
5	490.24024	-7.89	30.51	22.62	46.00	23.38	100	245	Vertical
6	845.61561	-1.48	24.12	22.64	46.00	23.36	100	8	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
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--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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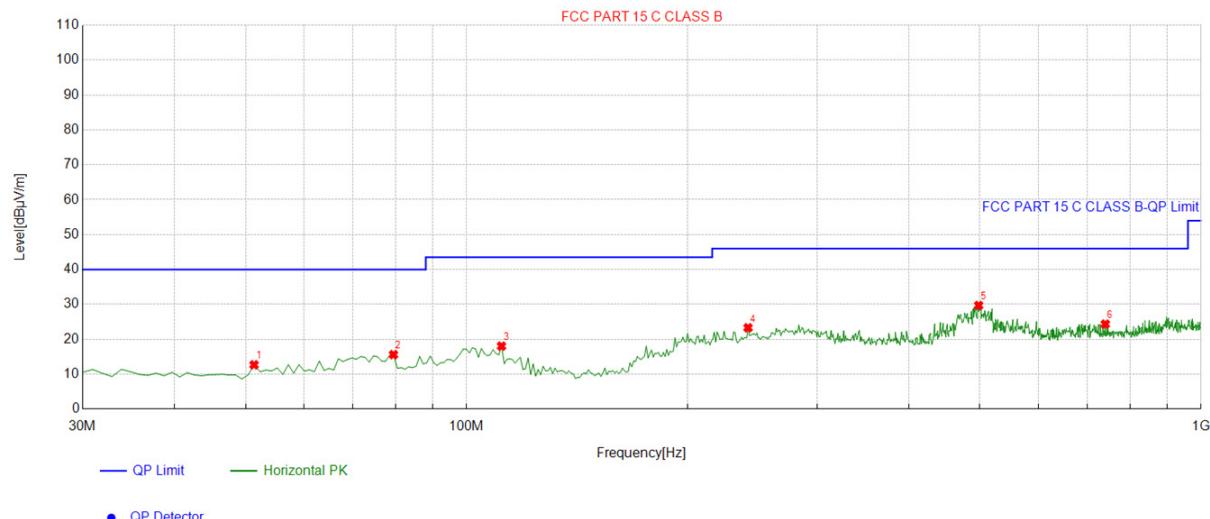
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Series Model No.: SP30 Pro

Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.361361	-13.25	25.93	12.68	40.00	27.32	100	243	Horizontal
2	79.51952	-18.01	33.60	15.59	40.00	24.41	100	329	Horizontal
3	111.56156	-14.50	32.54	18.04	43.50	25.46	100	11	Horizontal
4	241.67167	-13.52	36.82	23.30	46.00	22.70	100	198	Horizontal
5	498.00800	-8.03	37.72	29.69	46.00	16.31	100	260	Horizontal
6	740.75075	-3.40	27.74	24.34	46.00	21.66	100	294	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



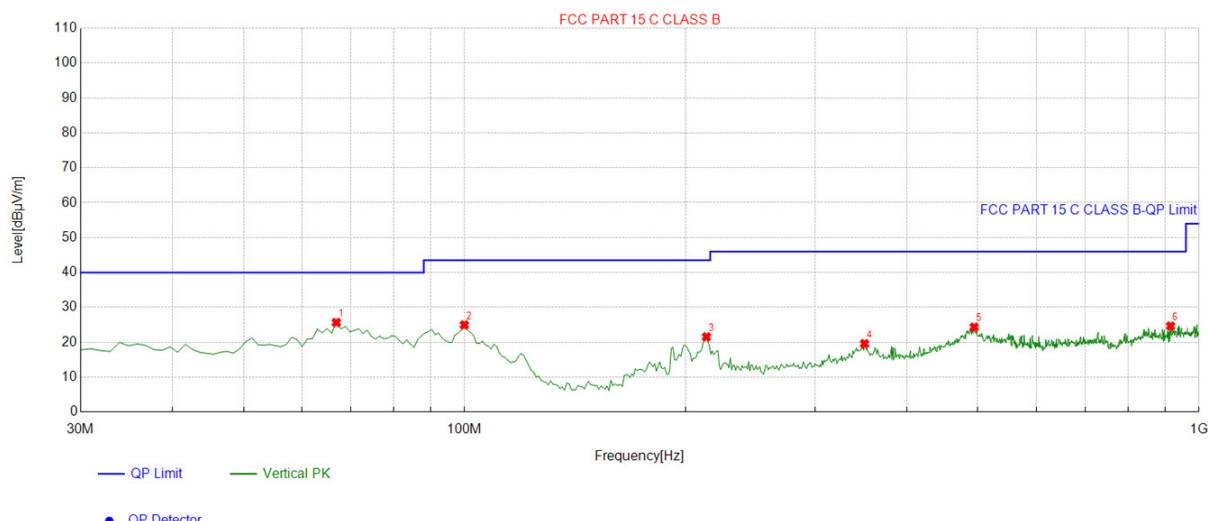
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Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	66.896897	-16.17	41.83	25.66	40.00	14.34	100	292	Vertical
2	99.90991	-14.70	39.67	24.97	43.50	18.53	100	163	Vertical
3	213.51351	-14.79	36.35	21.56	43.50	21.94	100	349	Vertical
4	350.42042	-10.05	29.65	19.60	46.00	26.40	100	232	Vertical
5	494.12412	-7.84	32.17	24.33	46.00	21.67	100	286	Vertical
6	914.55455	-0.95	25.60	24.65	46.00	21.35	100	195	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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--	--	--
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Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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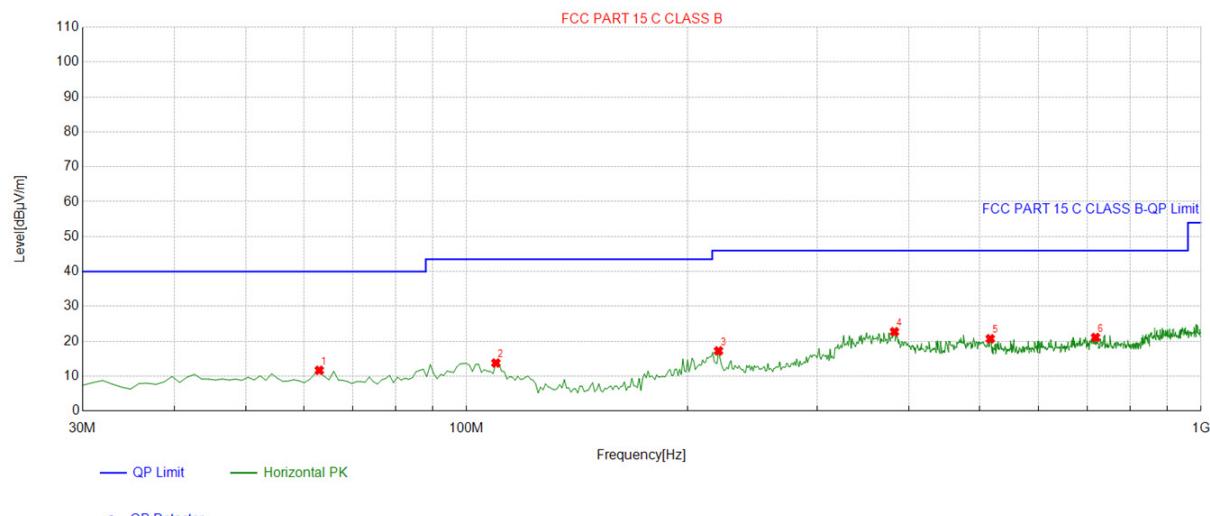
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Series Model No.: MT Ultimate

Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.013013	-14.48	26.15	11.67	40.00	28.33	100	96	Horizontal
2	109.61962	-14.22	27.99	13.77	43.50	29.73	100	29	Horizontal
3	220.31031	-14.54	31.78	17.24	46.00	28.76	100	302	Horizontal
4	382.46246	-9.17	31.91	22.74	46.00	23.26	100	279	Horizontal
5	516.45645	-7.74	28.46	20.72	46.00	25.28	100	150	Horizontal
6	718.41841	-4.24	25.32	21.08	46.00	24.92	100	244	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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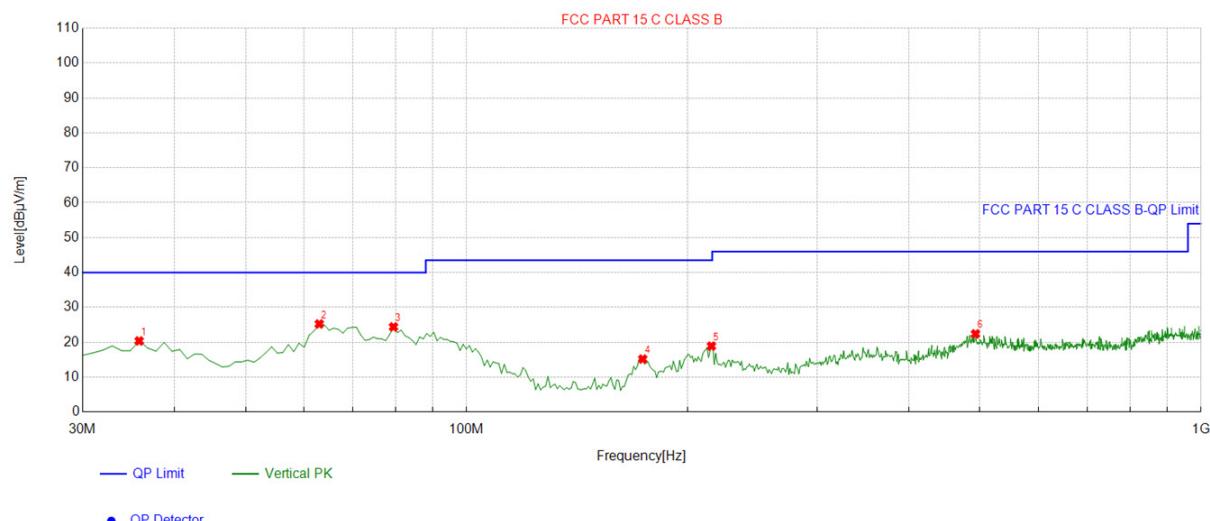
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Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.825826	-14.54	34.92	20.38	40.00	19.62	100	162	Vertical
2	63.013013	-14.48	39.73	25.25	40.00	14.75	100	78	Vertical
3	79.51952	-18.01	42.41	24.40	40.00	15.60	100	299	Vertical
4	173.70370	-16.83	32.01	15.18	43.50	28.32	100	36	Vertical
5	215.45545	-14.72	33.63	18.91	43.50	24.59	100	17	Vertical
6	493.15315	-7.86	30.27	22.41	46.00	23.59	100	351	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
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Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



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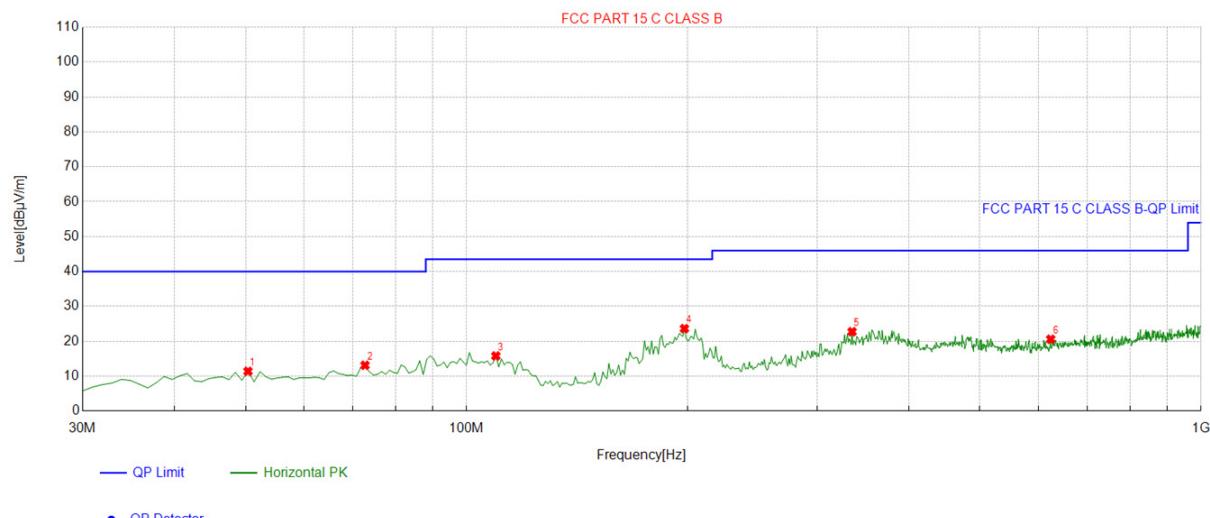
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Series Model No.: M15 pro

Horizontal



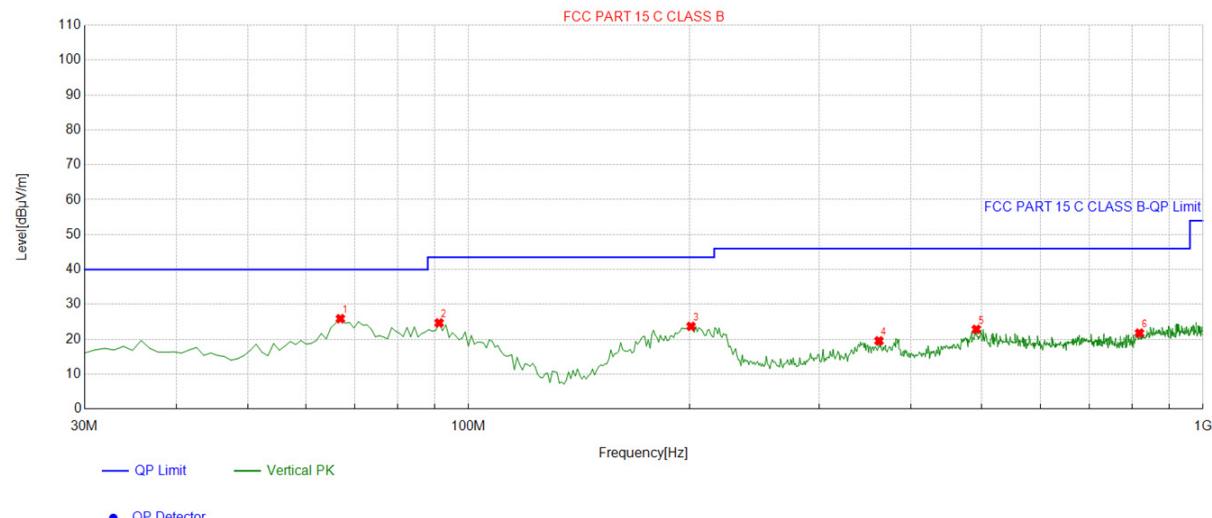
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.39039	-13.15	24.55	11.40	40.00	28.60	100	6	Horizontal
2	72.722723	-17.59	30.71	13.12	40.00	26.88	100	334	Horizontal
3	109.61962	-14.22	30.01	15.79	43.50	27.71	100	337	Horizontal
4	197.97797	-14.86	38.49	23.63	43.50	19.87	100	87	Horizontal
5	334.88488	-10.61	33.35	22.74	46.00	23.26	100	99	Horizontal
6	624.23423	-5.47	26.06	20.59	46.00	25.41	100	241	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



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Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	66.896897	-16.17	42.06	25.89	40.00	14.11	100	319	Vertical
2	91.171171	-16.91	41.59	24.68	43.50	18.82	100	82	Vertical
3	200.89089	-15.16	38.86	23.70	43.50	19.80	100	56	Vertical
4	362.07207	-9.74	29.28	19.54	46.00	26.46	100	214	Vertical
5	491.21121	-7.88	30.72	22.84	46.00	23.16	100	325	Vertical
6	819.39939	-2.65	24.41	21.76	46.00	24.24	100	220	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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HUAK TESTING

Above 1GHz

RADIATED EMISSION TEST

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	52.09	-4.59	47.5	68.2	-20.7	peak
11096	41.66	4.21	45.87	74	-28.13	peak
11096	40.29	4.21	44.5	54	-9.5	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	53.19	-4.59	48.6	68.2	-19.6	peak
11096	44.39	4.21	48.6	74	-25.4	peak
11096	42.15	4.21	46.36	54	-7.64	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit



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MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	52.89	-4.59	48.3	68.2	-19.9	peak
10523	50.32	4.21	54.53	68.2	-13.67	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type TESTING
3172	52.55	-4.59	47.96	68.2	-20.24	
10523	50.12	4.21	54.33	68.2	-13.87	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HIGH CH 165 (802.11a Mode with 5.8G)/5825

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Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.33	-4.59	47.74	74	-26.26	peak
2705	42.16	-4.59	37.57	54	-16.43	AVG
11717	50.08	4.84	54.92	74	-19.08	peak
11717	40.15	4.84	44.99	54	-9.01	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	53.93	-4.59	49.34	74	-24.66	peak
2705	42.35	-4.59	37.76	54	-16.24	AVG
11717	50.67	4.84	55.51	74	-18.49	peak
11717	41.29	4.84	46.13	54	-7.87	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.

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5.8G 802.11n/HT20 Mode**LOW CH 149****Horizontal:**

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	54.55	-4.59	49.96	68.2	-18.24	peak
11096	50.12	4.21	54.33	74	-19.67	peak
11096	39.38	4.21	43.59	54	-10.41	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	53.27	-4.59	48.68	68.2	-19.52	peak
11096	52.29	4.21	56.5	74	-17.5	peak
11096	41.45	4.21	45.66	54	-8.34	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	56.21	-4.59	51.62	68.2	-16.58	peak
10523	50.37	4.21	54.58	68.2	-13.62	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	51.42	-4.59	46.83	68.2	-21.37	peak
10523	50.29	4.21	54.5	68.2	-13.7	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.52	-4.59	47.93	74	-26.07	peak
2705	41.57	-4.59	36.98	54	-17.02	AVG
11717	50.13	4.84	54.97	74	-19.03	peak
11717	38.11	4.84	42.95	54	-11.05	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	55.22	-4.59	50.63	74	-23.37	peak
2705	42.79	-4.59	38.2	54	-15.8	AVG
11717	51.69	4.84	56.53	74	-17.47	peak
11717	40.69	4.84	45.53	54	-8.47	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.



HUAK TESTING

5.8G 802.11n/HT40 Mode

LOW CH 151

Horizontal:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
3368	56.19	-4.59	51.6	68.2	-16.6	peak
11096	52.05	4.21	56.26	74	-17.74	peak
11096	33.62	4.21	37.83	54	-16.17	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
3368	59.78	-4.59	55.19	68.2	-13.01	peak
11096	52.15	4.21	56.36	74	-17.64	peak
11096	33.78	4.21	37.99	54	-16.01	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - limit



HUAK TESTING

MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	59.32	-4.59	54.73	68.2	-13.47	peak
10523	50.21	4.21	54.42	68.2	-13.78	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	53.41	-4.59	48.82	68.2	-19.38	peak
10523	49.52	4.21	53.73	68.2	-14.47	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.

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5.8G 802.11ac/HT20 Mode**LOW CH 149****Horizontal:**

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	54.24	-4.59	49.65	68.2	-18.55	peak
11096	45.41	4.21	49.62	74	-24.38	peak
11096	43.06	4.21	47.27	54	-6.73	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	52.7	-4.59	48.11	68.2	-20.09	peak
11096	50.58	4.21	54.79	74	-19.21	peak
11096	39.58	4.21	43.79	54	-10.21	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH157

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	54.12	-4.59	49.53	68.2	-18.67	peak
10523	47.35	4.21	51.56	68.2	-16.64	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	54.26	-4.59	49.67	68.2	-18.53	peak
10523	48.86	4.21	53.07	68.2	-15.13	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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**HUAK TESTING****HIGH CH165**

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	53.66	-4.59	49.07	74	-24.93	peak
2705	42.87	-4.59	38.28	54	-15.72	AVG
11717	52.72	4.84	57.56	74	-16.44	peak
11717	38.82	4.84	43.66	54	-10.34	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	51.9	-4.59	47.31	74	-26.69	peak
2705	43.57	-4.59	38.98	54	-15.02	AVG
11717	50.21	4.84	55.05	74	-18.95	peak
11717	39.64	4.84	44.48	54	-9.52	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) < 54 dB μ V/m(AV Limit), the Average Detected not need to completed.



HUAK TESTING

5.8G 802.11ac/HT40 Mode

LOW CH 151

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	55.02	-4.59	50.43	68.2	-17.77	peak
11096	50.56	4.21	54.77	74	-19.23	peak
11096	38.05	4.21	42.26	54	-11.74	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = |level| - limit

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	52.96	-4.59	48.37	68.2	-19.83	peak
11096	49.41	4.21	53.62	74	-20.38	peak
11096	37.64	4.21	41.85	54	-12.15	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



HUAK TESTING

MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	61.25	-4.59	56.66	68.2	-11.54	peak
10523	50.81	4.21	55.02	68.2	-13.18	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	53.26	-4.59	48.67	68.2	-19.53	peak
10523	50.53	4.21	54.74	68.2	-13.46	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.



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5.8G 802.11ac/HT80 Mode

CH 155

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	52.59	-4.59	48	68.2	-20.2	
11096	50.72	4.21	54.93	74	-19.07	peak
11096	38.25	4.21	42.46	54	-11.54	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	55.03	-4.59	50.44	68.2	-17.76	
11096	50.03	4.21	54.24	74	-19.76	peak
11096	42.35	4.21	46.56	54	-7.44	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) < 54 dB μ V/m(AV Limit), the Average Detected not need to completed.



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Series Model No.: S26 Ultra

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	52.49	-4.59	47.9	68.2	-20.3	peak
11096	42.04	4.21	46.25	74	-27.75	peak
11096	38.29	4.21	42.5	54	-11.5	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	54.35	-4.59	49.76	68.2	-18.44	peak
11096	43.65	4.21	47.86	74	-26.14	peak
11096	41.62	4.21	45.83	54	-8.17	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	53.03	-4.59	48.44	68.2	-19.76	peak
10523	49.11	4.21	53.32	68.2	-14.88	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	51.32	-4.59	46.73	68.2	-21.47	peak
10523	49.39	4.21	53.6	68.2	-14.6	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.37	-4.59	47.78	74	-26.22	peak
2705	40.36	-4.59	35.77	54	-18.23	AVG
11717	49.02	4.84	53.86	74	-20.14	peak
11717	37.21	4.84	42.05	54	-11.95	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	53.48	-4.59	48.89	74	-25.11	peak
2705	42.36	-4.59	37.77	54	-16.23	AVG
11717	49.78	4.84	54.62	74	-19.38	peak
11717	41.03	4.84	45.87	54	-8.13	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (6) All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)



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Series Model No.: Pixel 9

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	54.07	-4.59	49.48	68.2	-18.72	peak
11096	40.69	4.21	44.9	74	-29.1	peak
11096	37.64	4.21	41.85	54	-12.15	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	54.71	-4.59	50.12	68.2	-18.08	peak
11096	44.5	4.21	48.71	74	-25.29	peak
11096	39.76	4.21	43.97	54	-10.03	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	55.01	-4.59	50.42	68.2	-17.78	peak
10523	50.31	4.21	54.52	68.2	-13.68	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	52.89	-4.59	48.3	68.2	-19.9	peak
10523	49.88	4.21	54.09	68.2	-14.11	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.82	-4.59	48.23	74	-25.77	peak
2705	40.15	-4.59	35.56	54	-18.44	AVG
11717	50.51	4.84	55.35	74	-18.65	peak
11717	39.33	4.84	44.17	54	-9.83	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.41	-4.59	47.82	74	-26.18	peak
2705	42.54	-4.59	37.95	54	-16.05	AVG
11717	50.81	4.84	55.65	74	-18.35	peak
11717	40.36	4.84	45.2	54	-8.8	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (6) All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)

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Series Model No.: SP30 Pro

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	51.69	-4.59	47.1	68.2	-21.1	peak
11096	42.35	4.21	46.56	74	-27.44	peak
11096	38.91	4.21	43.12	54	-10.88	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3368	51.85	-4.59	47.26	68.2	-20.94	peak
11096	45.49	4.21	49.7	74	-24.3	peak
11096	41.19	4.21	45.4	54	-8.6	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HUAK TESTING

MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	51.77	-4.59	47.18	68.2	-21.02	peak
10523	50.4	4.21	54.61	68.2	-13.59	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	52.98	-4.59	48.39	68.2	-19.81	peak
10523	48.11	4.21	52.32	68.2	-15.88	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	53.13	-4.59	48.54	74	-25.46	peak
2705	40.78	-4.59	36.19	54	-17.81	AVG
11717	51.07	4.84	55.91	74	-18.09	peak
11717	37.78	4.84	42.62	54	-11.38	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.46	-4.59	47.87	74	-26.13	peak
2705	43.2	-4.59	38.61	54	-15.39	AVG
11717	51.39	4.84	56.23	74	-17.77	peak
11717	41.37	4.84	46.21	54	-7.79	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (6) All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)



HUAK TESTING

Series Model No.: MT Ultimate

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	52.1	-4.59	47.51	68.2	-20.69	peak
11096	41.46	4.21	45.67	74	-28.33	peak
11096	37.9	4.21	42.11	54	-11.89	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	53.21	-4.59	48.62	68.2	-19.58	peak
11096	44.17	4.21	48.38	74	-25.62	peak
11096	39.4	4.21	43.61	54	-10.39	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit



HUAK TESTING

HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	51.03	-4.59	46.44	74	-27.56	peak
2705	41.64	-4.59	37.05	54	-16.95	AVG
11717	50.21	4.84	55.05	74	-18.95	peak
11717	38.79	4.84	43.63	54	-10.37	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.67	-4.59	48.08	74	-25.92	peak
2705	42.04	-4.59	37.45	54	-16.55	AVG
11717	49.91	4.84	54.75	74	-19.25	peak
11717	40.53	4.84	45.37	54	-8.63	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (6) All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)



HUAK TESTING

Series Model No.: M15 pro

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	52.88	-4.59	48.29	68.2	-19.91	peak
11096	42.5	4.21	46.71	74	-27.29	peak
11096	38.46	4.21	42.67	54	-11.33	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3368	53.04	-4.59	48.45	68.2	-19.75	peak
11096	45.46	4.21	49.67	74	-24.33	peak
11096	41.29	4.21	45.5	54	-8.5	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit



HUAK TESTING

MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	51.52	-4.59	46.93	68.2	-21.27	peak
10523	50.24	4.21	54.45	68.2	-13.75	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	51.83	-4.59	47.24	68.2	-20.96	peak
10523	48.82	4.21	53.03	68.2	-15.17	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.19	-4.59	47.6	74	-26.4	peak
2705	41.29	-4.59	36.7	54	-17.3	AVG
11717	49.74	4.84	54.58	74	-19.42	peak
11717	39.16	4.84	44	54	-10	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2705	52.35	-4.59	47.76	74	-26.24	peak
2705	41.21	-4.59	36.62	54	-17.38	AVG
11717	50.01	4.84	54.85	74	-19.15	peak
11717	39.72	4.84	44.56	54	-9.44	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 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 record 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 Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (6) All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)

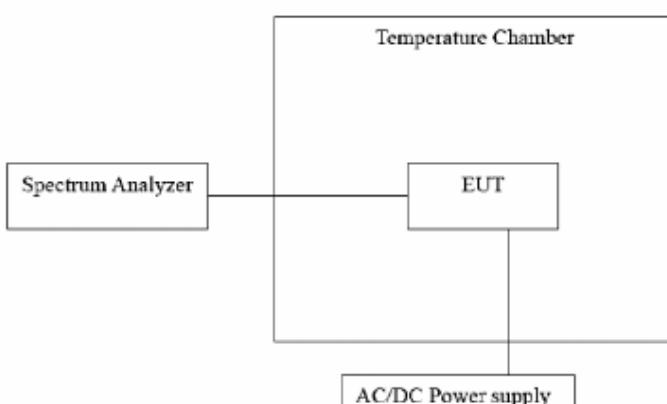


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4.8. Frequency Stability Measurement

4.8.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	N/A

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Test Result as follows:

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	4.25V	5744.995	-5	5825.016	16
	5.0V	5745.022	22	5824.988	-12
	5.75V	5744.991	-9	5824.981	-19

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	-30	5744.969	-31	5825.016	16
	-20	5745.014	14	5825.015	15
	-10	5744.988	-12	5824.987	-13
	0	5744.974	-26	5824.971	-29
	10	5744.969	-31	5825.022	22
	20	5745.022	22	5824.991	-9
	30	5744.973	-27	5824.963	-37
	40	5744.989	-11	5824.977	-23
	50	5744.977	-23	5825.011	11

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4.9. 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 15.249, if transmitting antennas of directional gain greater than 6dBi 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 0.98dBi.

Antenna



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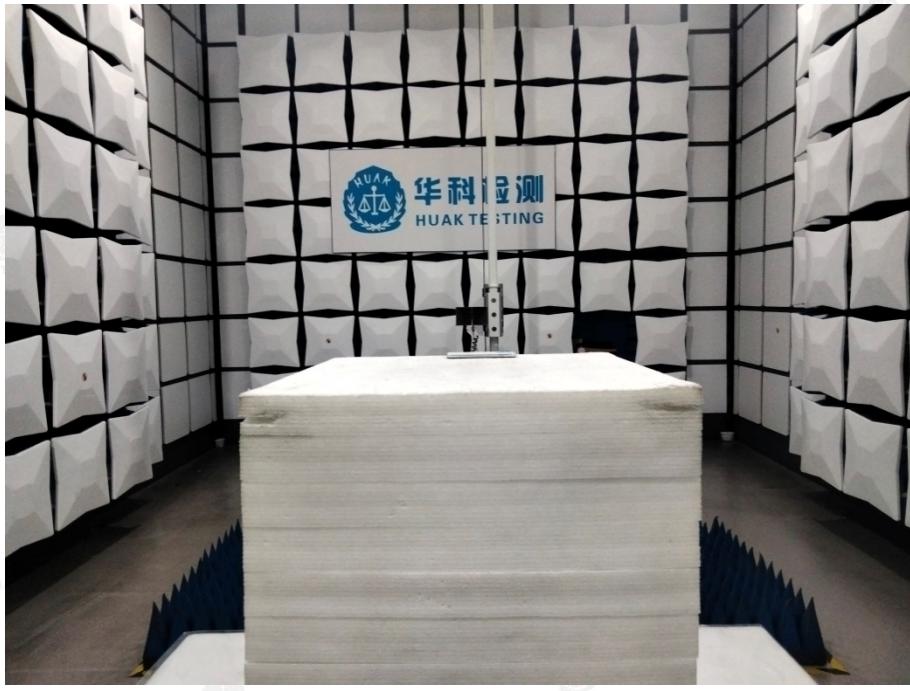
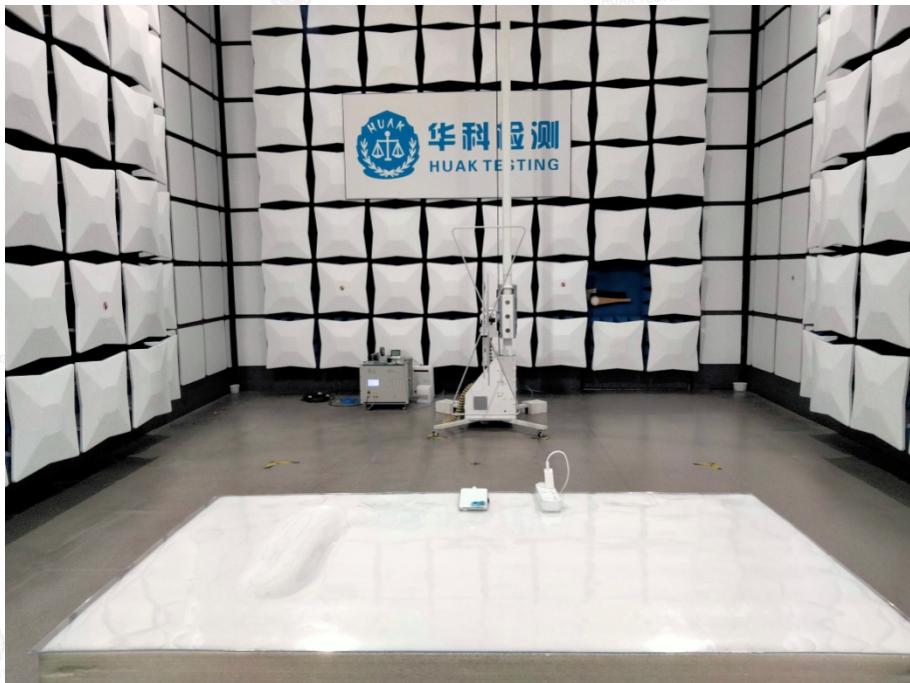
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5. Test Setup Photos of the EUT

Test Model No.: I16 Pro max
Radiated Emissions



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