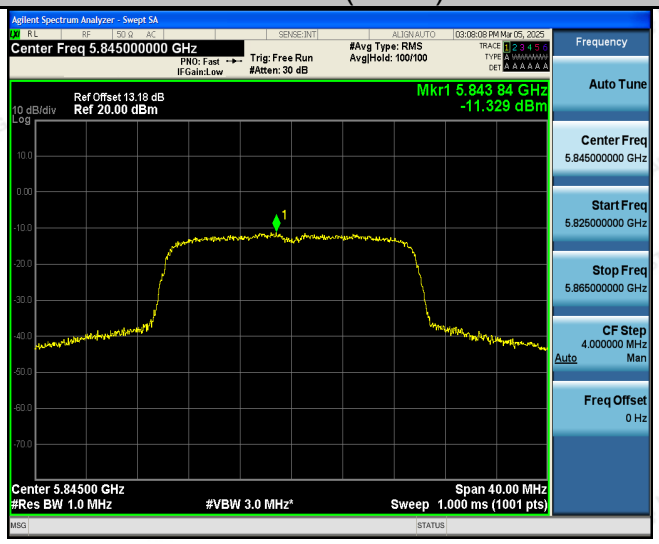
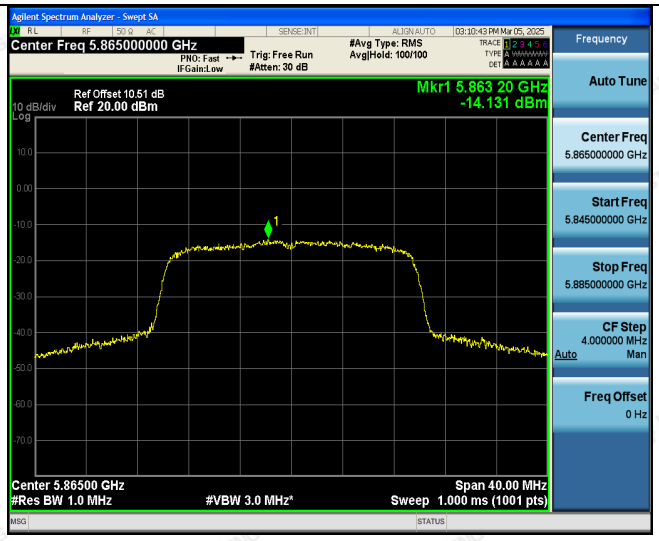
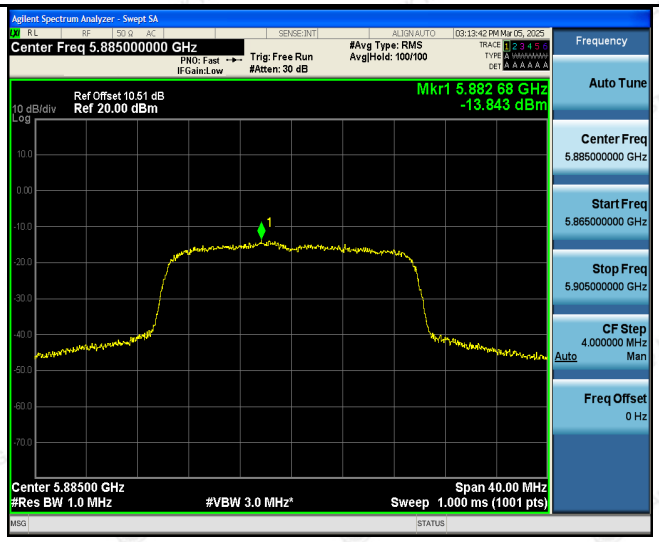
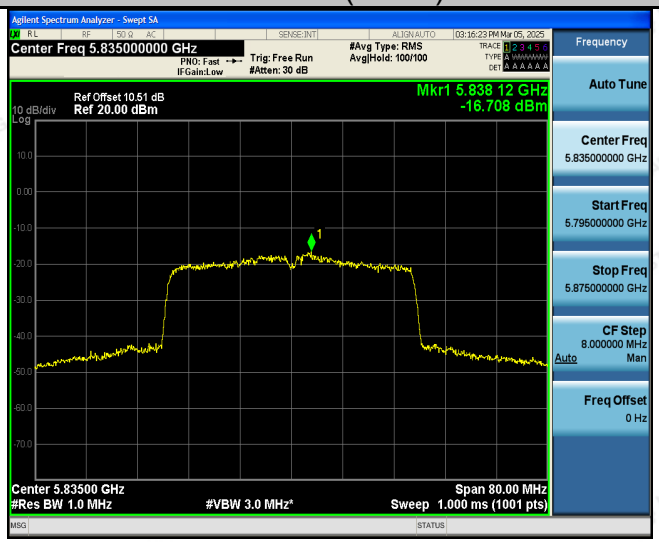
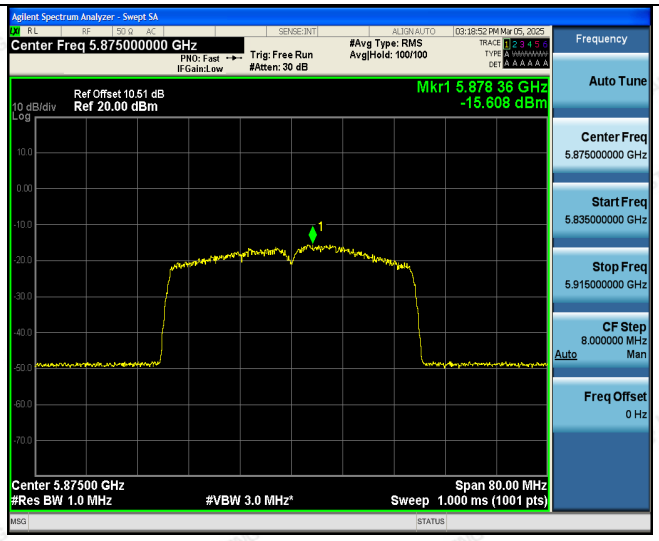
802.11ac(VHT80)

5855

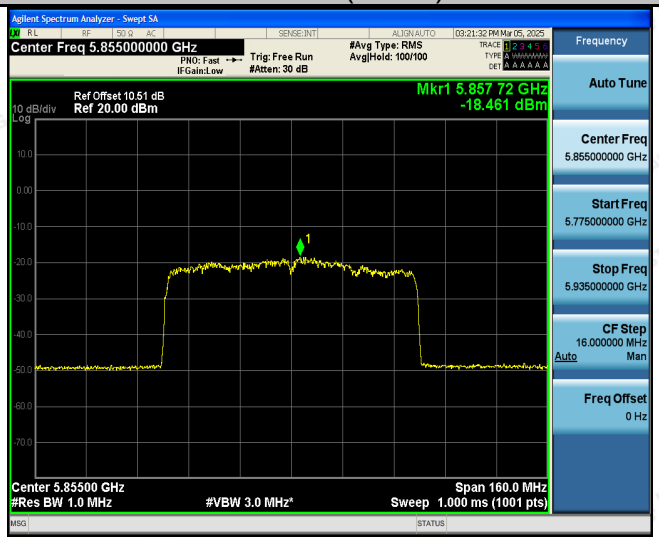
802.11ac(VHT160)

5815

802.11ax(HE20)
 5845
 5865
 5885

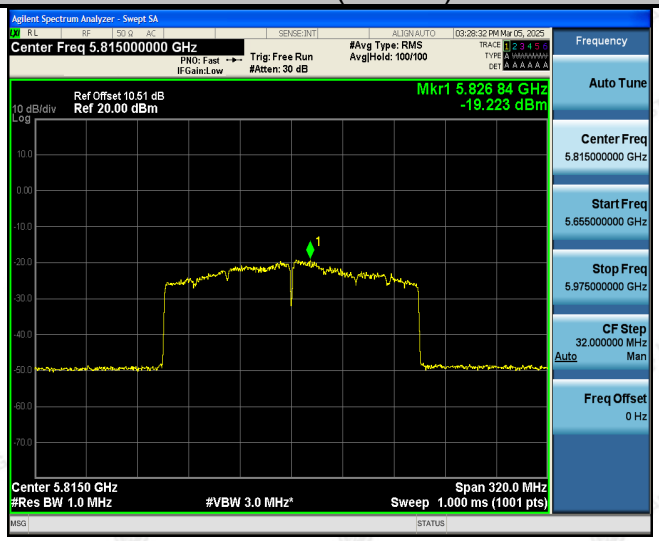
802.11ax(HE40)
 5835
 5875

802.11ax(HE80)



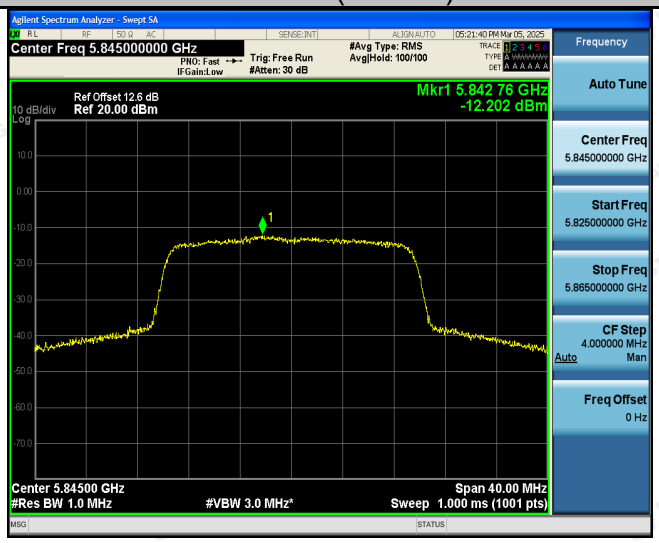
5855

802.11ax(HE160)

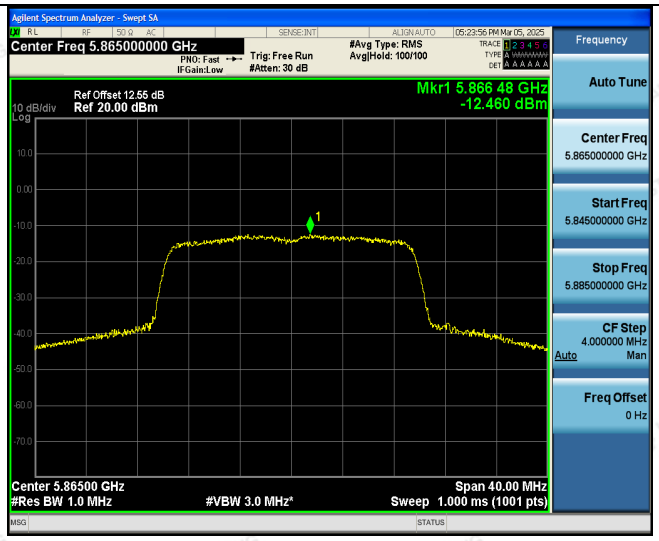


5815

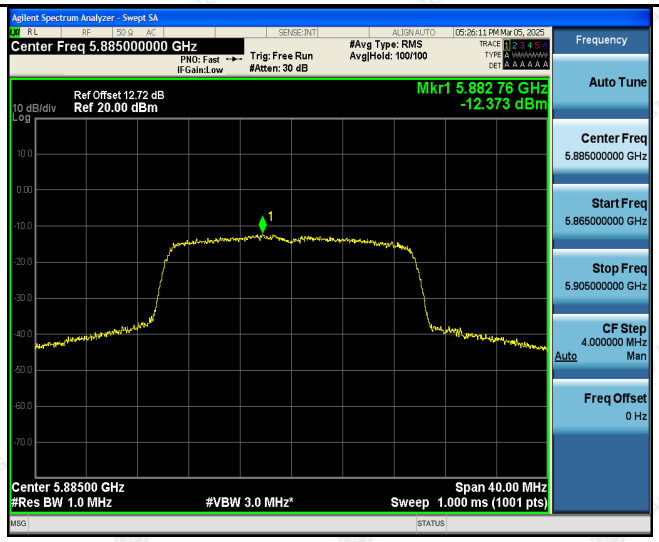
802.11be(EHT20)



5845

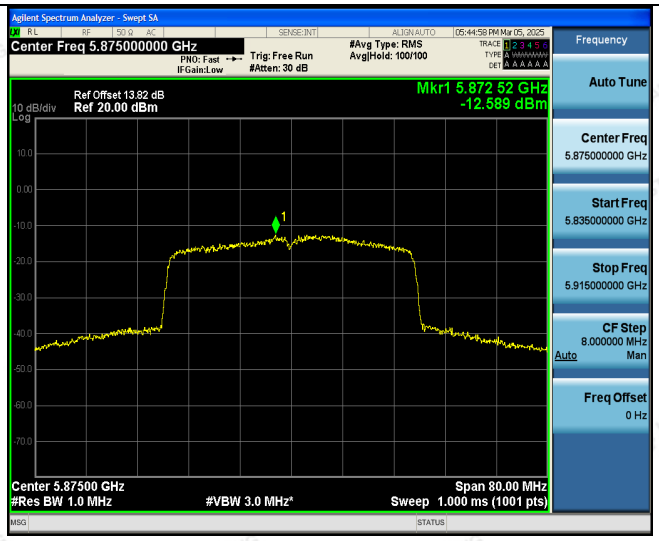


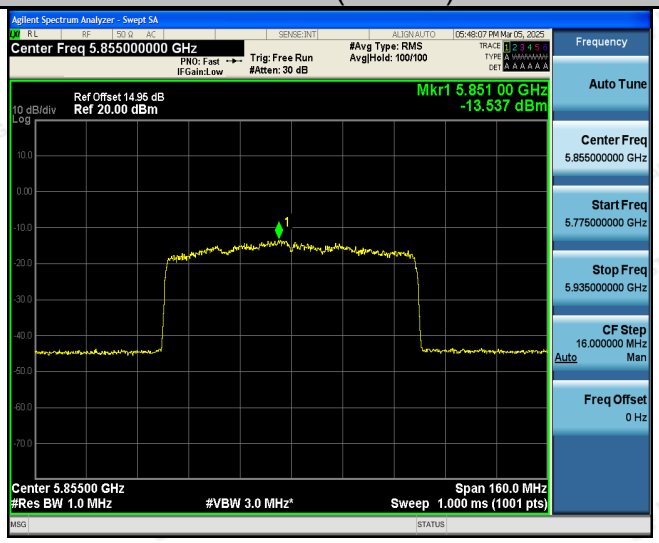
5865

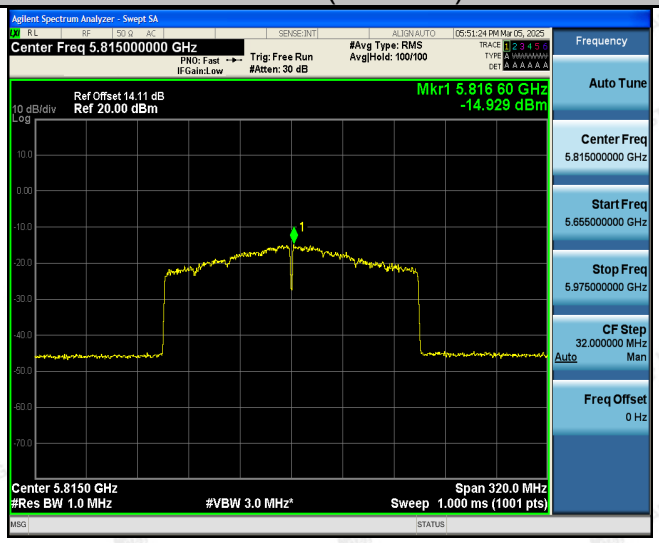


5885

TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

802.11be(EHT40)
 5835
 5875

802.11be(EHT80)

5855

802.11be(EHT160)

5815

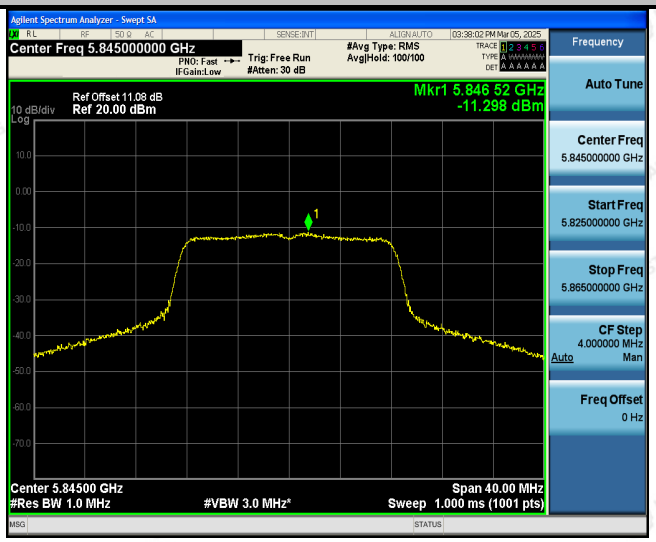
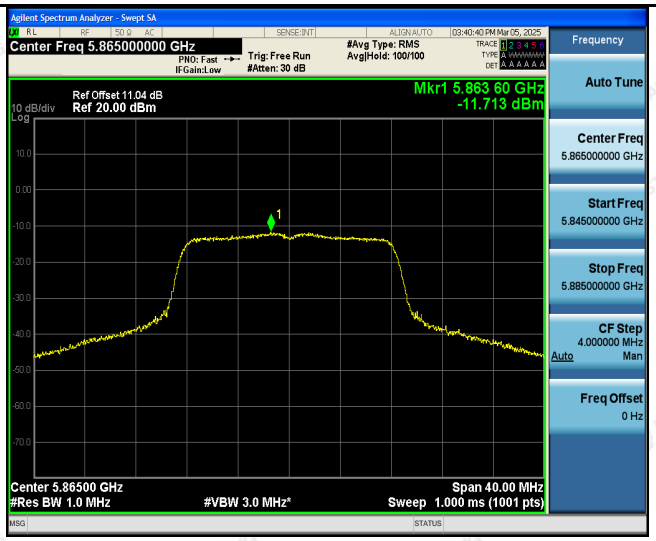
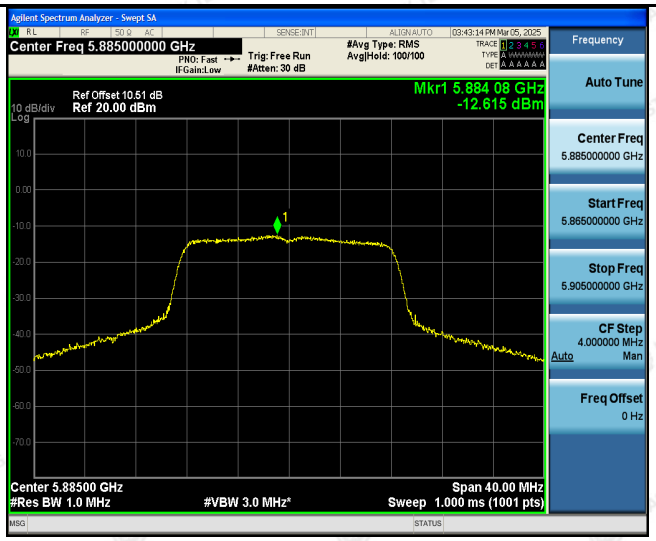
ANT. 2

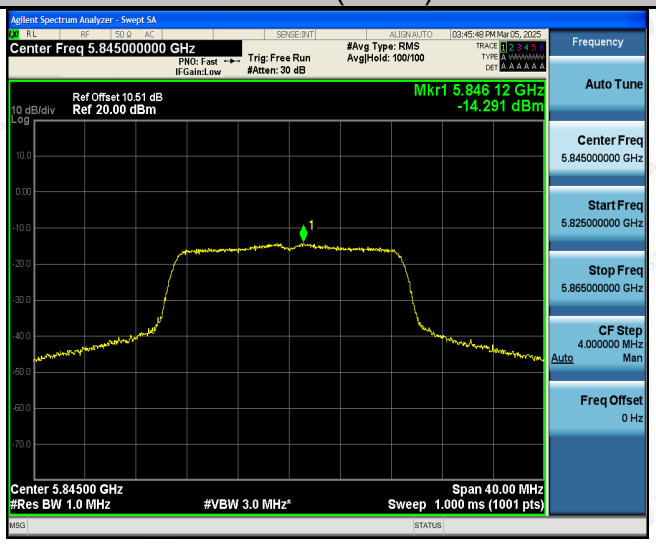
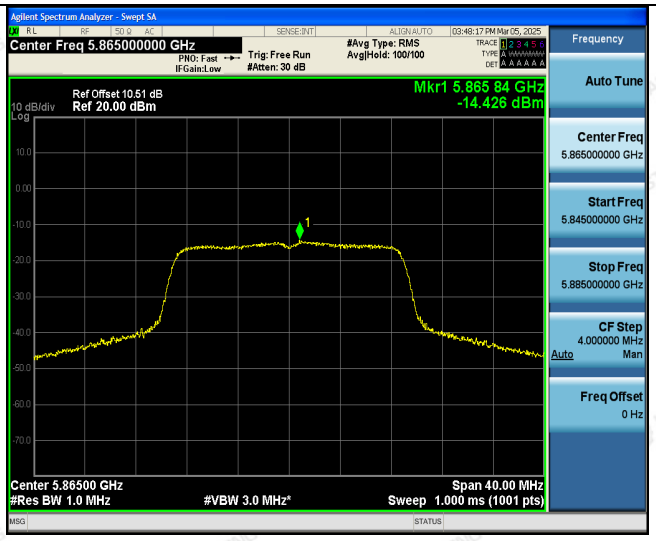
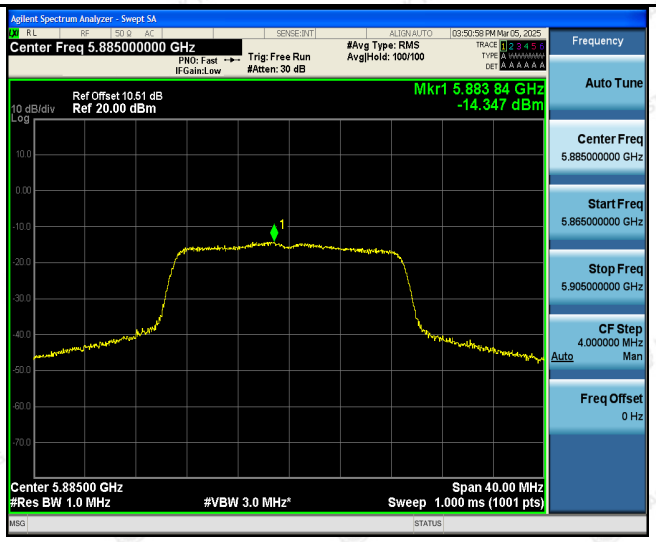
Mode	Test channel	Frequency [MHz]	Result [dBm/MHz]	E.I.R.P [dBm/MHz]	Limit [dBm/MHz]	Result
802.11a	CH169	5845	-11.30	-8.05	14	PASS
802.11a	CH173	5865	-11.71	-8.46	14	PASS
802.11a	CH177	5885	-12.62	-9.37	14	PASS
802.11n(HT20)	CH169	5845	-14.29	-11.04	14	PASS
802.11n(HT20)	CH173	5865	-14.43	-11.18	14	PASS
802.11n(HT20)	CH177	5885	-14.35	-11.10	14	PASS
802.11n(HT40)	CH167	5835	-14.49	-11.24	14	PASS
802.11n(HT40)	CH175	5875	-14.39	-11.14	14	PASS
802.11ac(VHT20)	CH169	5845	-14.12	-10.87	14	PASS
802.11ac(VHT20)	CH173	5865	-13.22	-9.97	14	PASS
802.11ac(VHT20)	CH177	5885	-11.30	-8.05	14	PASS
802.11ac(VHT40)	CH167	5835	-15.18	-11.93	14	PASS
802.11ac(VHT40)	CH175	5875	-15.31	-12.06	14	PASS
802.11ac(VHT80)	CH171	5855	-18.35	-15.10	14	PASS
802.11ac(VHT160)	CH163	5815	-21.02	-17.77	14	PASS
802.11ax(HE20)	CH169	5845	-14.07	-10.82	14	PASS
802.11ax(HE20)	CH173	5865	-13.81	-10.56	14	PASS
802.11ax(HE20)	CH177	5885	-13.72	-10.47	14	PASS
802.11ax(HE40)	CH167	5835	-15.26	-12.01	14	PASS
802.11ax(HE40)	CH175	5875	-11.89	-8.64	14	PASS
802.11ax(HE80)	CH171	5855	-18.21	-14.96	14	PASS
802.11ax(HE160)	CH163	5815	-19.45	-16.20	14	PASS

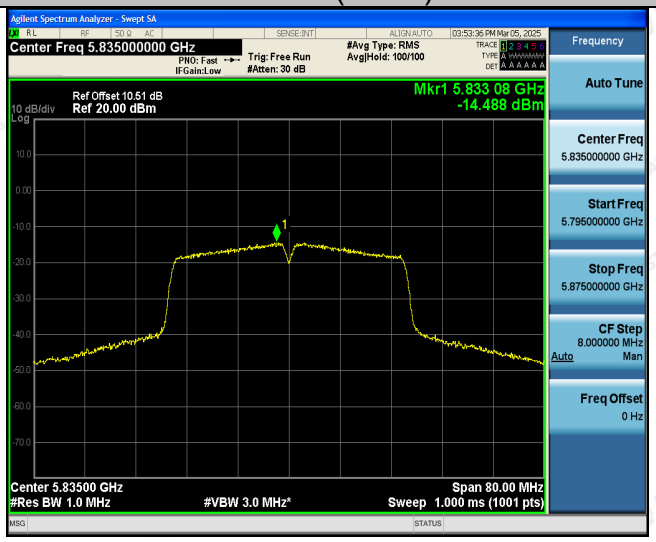
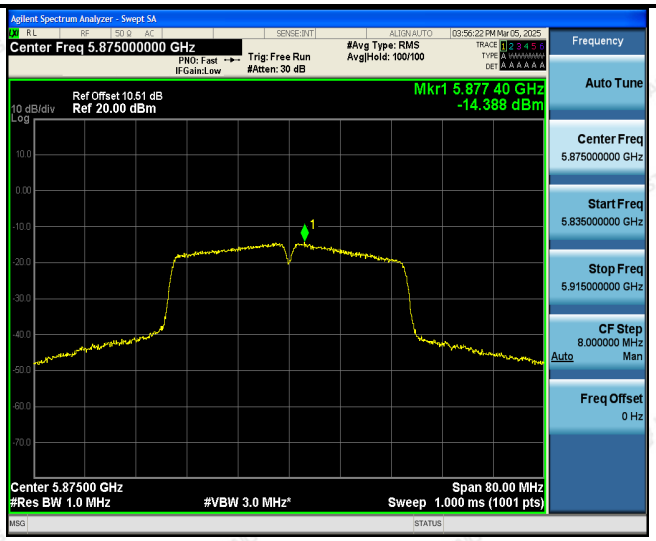
802.11be(EHT20)	CH169	5845	-12.55	-9.30	14	PASS
802.11be(EHT20)	CH173	5865	-12.33	-9.08	14	PASS
802.11be(EHT20)	CH177	5885	-12.38	-9.13	14	PASS
802.11be(EHT40)	CH167	5835	-12.46	-9.21	14	PASS
802.11be(EHT40)	CH175	5875	-12.35	-9.10	14	PASS
802.11be(EHT80)	CH171	5855	-13.75	-10.50	14	PASS
802.11be(EHT160)	CH163	5815	-15.87	-12.62	14	PASS

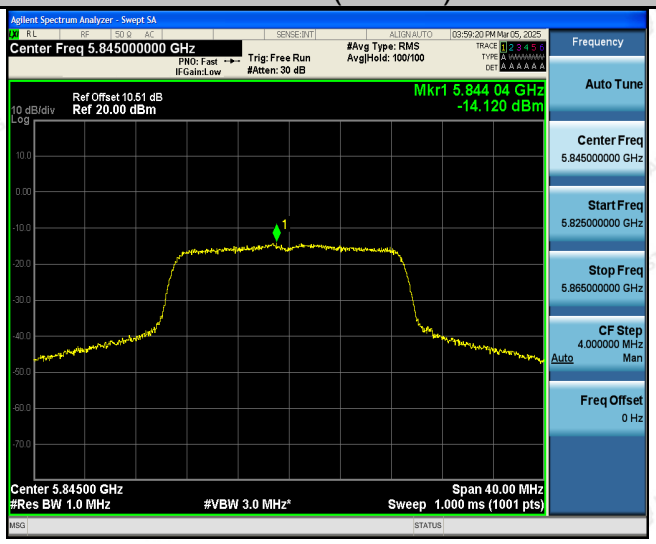
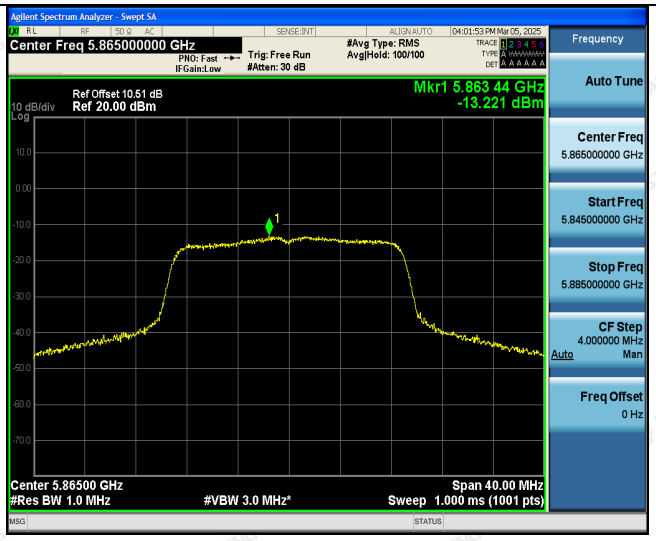
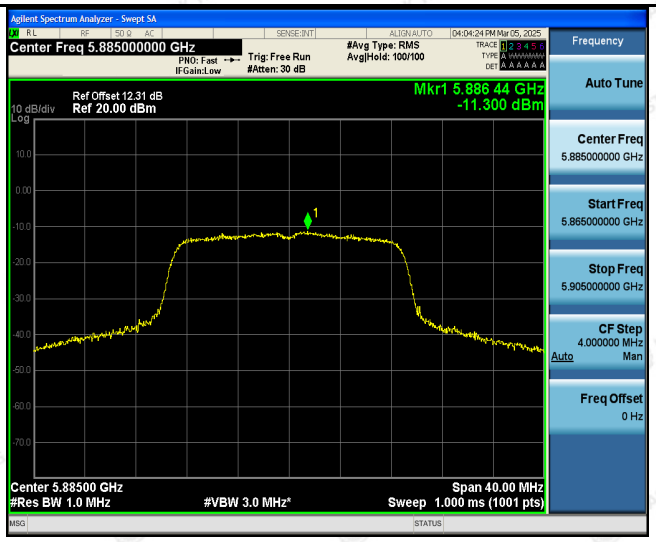
NOTE: E.I.R.P= PSD Result + antenna gain
Antenna 2 gain = 3.25dBi

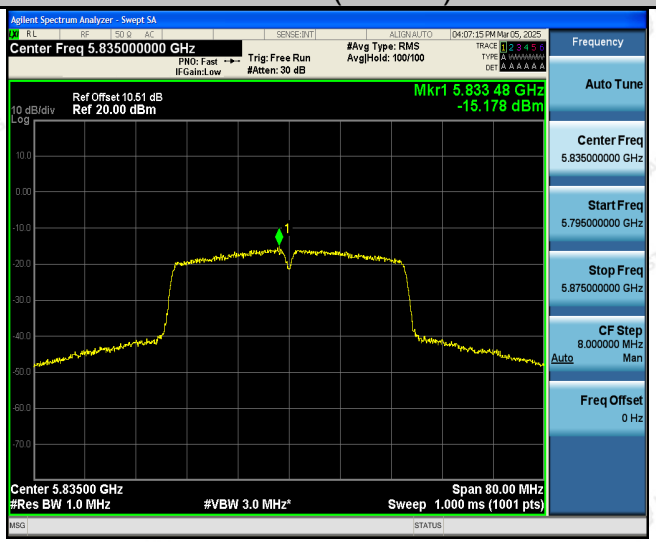
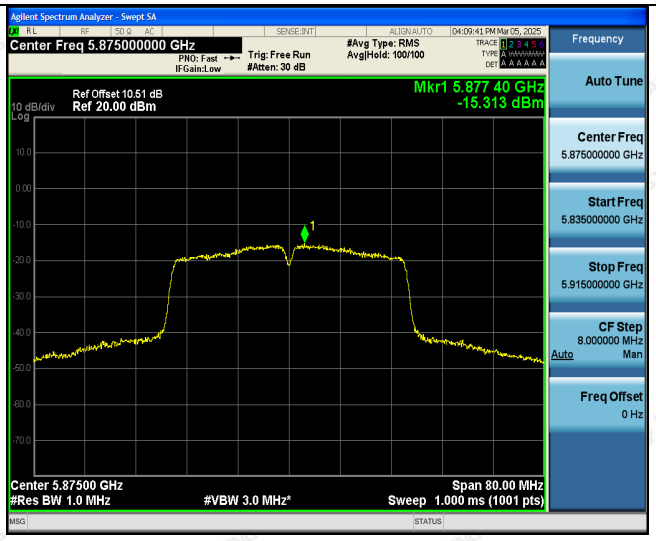
Test plots as follows:

802.11a
 5845
 5865
 5885

802.11n(HT20)

5845

5865

5885

802.11n(HT40)

5835

5875

802.11ac(VHT20)
 5845
 5865
 5885

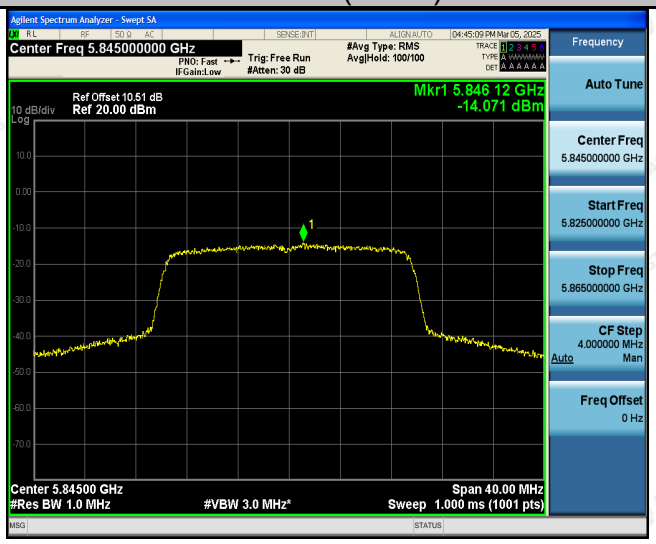
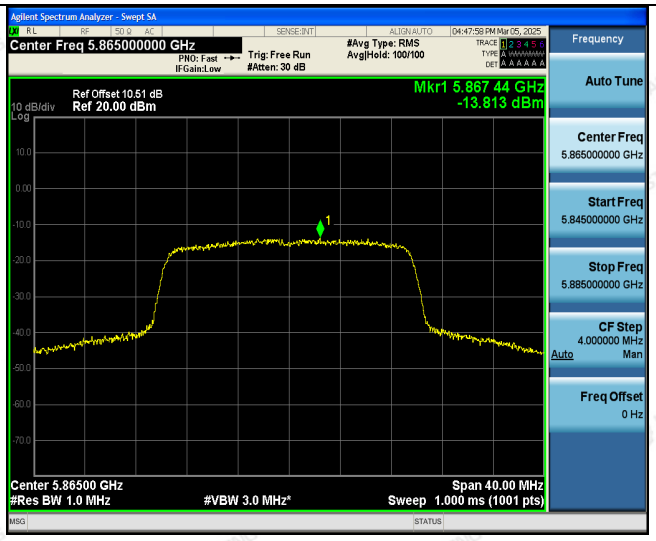
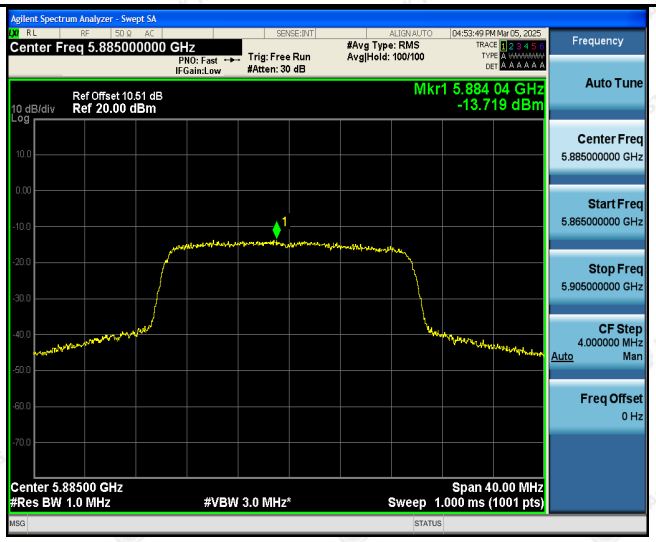
802.11ac(VHT40)

5835

5875

802.11ac(VHT80)

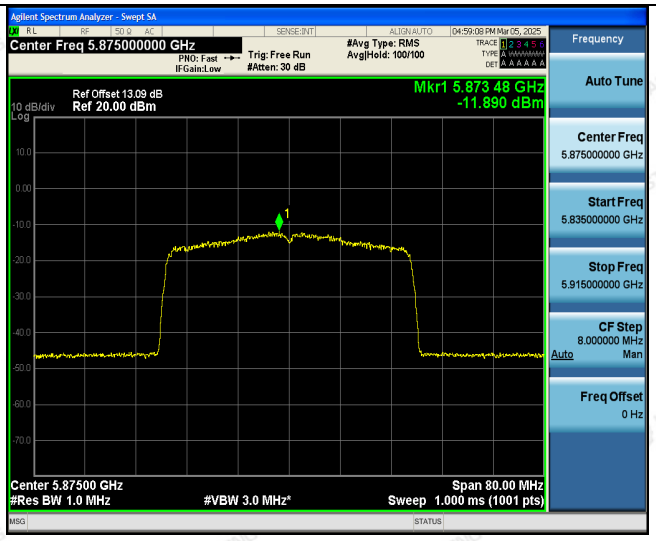
5855

802.11ac(VHT160)

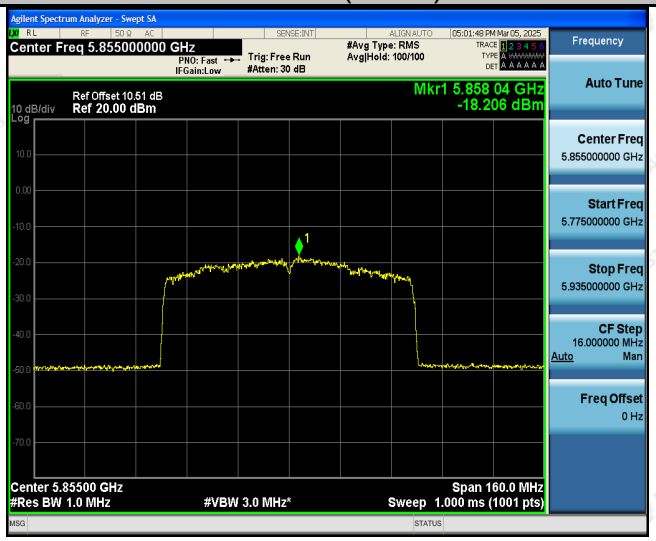
5815

802.11ax(HE20)

5845

5865

5885

802.11ax(HE40)

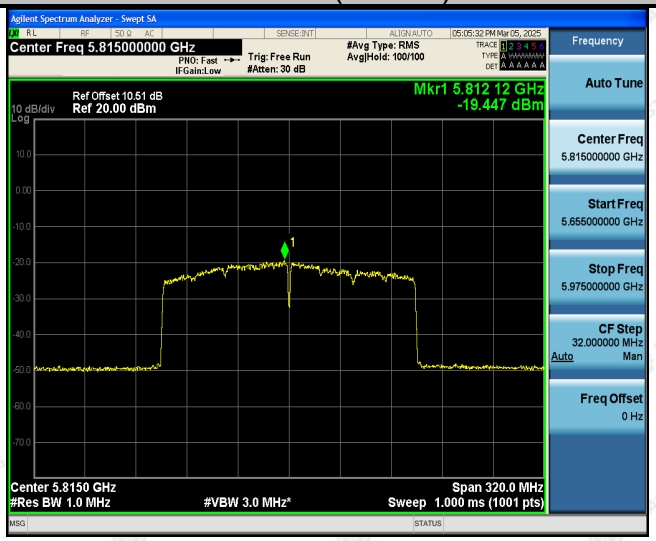
5835

5875

802.11ax(HE80)

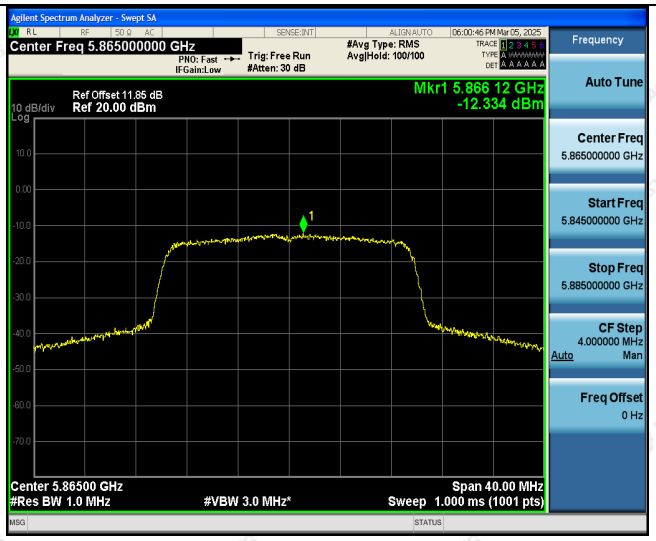
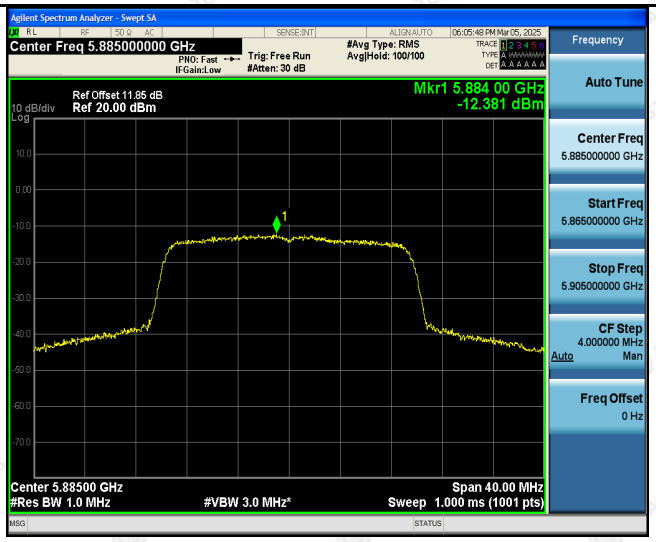


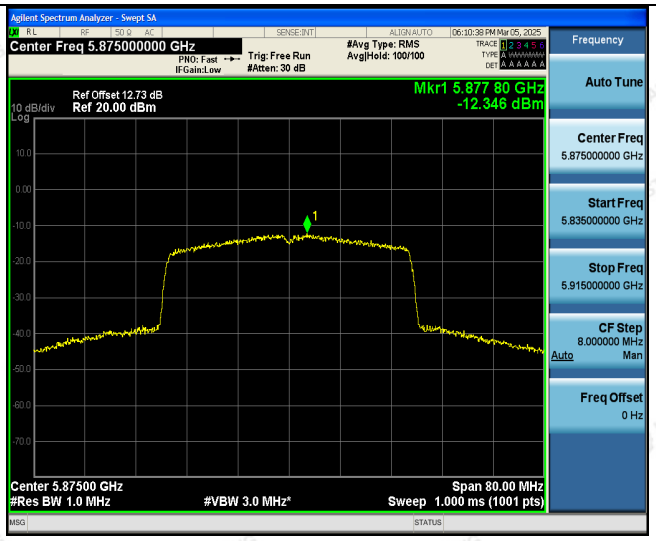
5855

802.11ax(HE160)

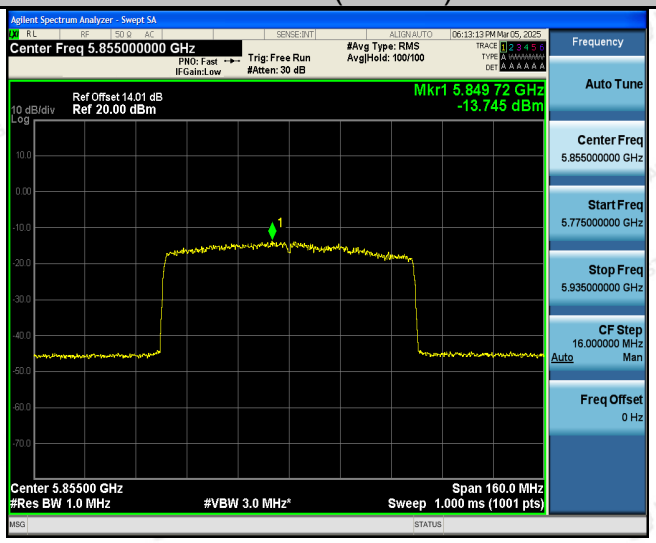


5815

802.11be(EHT20)
 5845
 5865
 5885

802.11be(EHT40)
 5835
 5875

802.11be(EHT80)



5855

802.11be(EHT160)

5815

For MIMO antenna port 1+antenna port 2

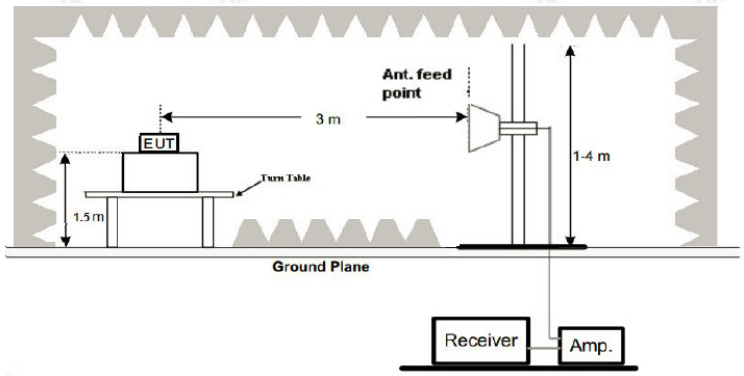
Mode	Test Channel	Frequency (MHz)	Power Density (dBm)	E.I.R.P (dBm)	Limit (dBm)	Result
802.11n(HT20)	CH169	5845	-11.17	-5.30	14	PASS
802.11n(HT20)	CH173	5865	-10.16	-4.29	14	PASS
802.11n(HT20)	CH177	5885	-10.72	-4.85	14	PASS
802.11n(HT40)	CH167	5835	-10.15	-4.28	14	PASS
802.11n(HT40)	CH175	5875	-11.13	-5.26	14	PASS
802.11ac(VHT20)	CH169	5845	-9.67	-3.80	14	PASS
802.11ac(VHT20)	CH173	5865	-10.54	-4.67	14	PASS
802.11ac(VHT20)	CH177	5885	-8.29	-2.42	14	PASS
802.11ac(VHT40)	CH167	5835	-12.73	-6.86	14	PASS
802.11ac(VHT40)	CH175	5875	-10.82	-4.95	14	PASS
802.11ac(VHT80)	CH171	5855	-16.13	-10.26	14	PASS
802.11ac(VHT160)	CH163	5815	-18.35	-12.48	14	PASS
802.11ax(HE20)	CH169	5845	-9.48	-3.61	14	PASS
802.11ax(HE20)	CH173	5865	-10.96	-5.09	14	PASS
802.11ax(HE20)	CH177	5885	-10.77	-4.90	14	PASS
802.11ax(HE40)	CH167	5835	-12.91	-7.04	14	PASS
802.11ax(HE40)	CH175	5875	-10.35	-4.48	14	PASS
802.11ax(HE80)	CH171	5855	-15.32	-9.45	14	PASS
802.11ax(HE160)	CH163	5815	-16.32	-10.45	14	PASS

802.11be(EHT20)	CH169	5845	-9.36	-3.49	14	PASS
802.11be(EHT20)	CH173	5865	-9.38	-3.51	14	PASS
802.11be(EHT20)	CH177	5885	-9.36	-3.49	14	PASS
802.11be(EHT40)	CH167	5835	-9.35	-3.48	14	PASS
802.11be(EHT40)	CH175	5875	-9.46	-3.59	14	PASS
802.11be(EHT80)	CH171	5855	-10.63	-4.76	14	PASS
802.11be(EHT160)	CH163	5815	-12.36	-6.49	14	PASS
	Note: 1. According to KDB 662911, Result power = $10\log(10^{(ant1/10}+10^{(ant2/10)})$. 2. Result unit: W, The end result is converted to units of dBm. Limit=14dBm-(direction gain-6dBi)=14dBm					

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n/ac/ax/be for MIMO mode, not support 802.11 a for MIMO mode.

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:	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of −7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz. The limit of frequency below 1GHz and which fall in restr icted bands should complies 15.209.
Test Setup:	
Test Mode:	Transmitting mode with modulation

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 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. 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. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
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

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

4.6.3 Test Data

All modes of operation were investigated and the worst-case emissions of ANT.2 are reported.

Operation Mode: 802.11a Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	52.04	-2.06	49.98	68.2	-18.22	peak
5750	86.76	-1.96	84.8	105.2	-20.4	peak
5800	94.18	-2.87	91.31	110.8	-19.49	peak
5825	108.8	-2.14	106.66	122.2	-15.54	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	57.82	-2.06	55.76	68.2	-12.44	peak
5750	86.89	-1.96	84.93	105.2	-20.27	peak
5800	93.38	-2.87	90.51	110.8	-20.29	peak
5825	110.18	-2.14	108.04	122.2	-14.16	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5910	109.67	-1.97	107.7	122.2	-14.5	peak
5935	93.69	-2.13	91.56	110.8	-19.24	peak
5985	85.57	-2.65	82.92	105.2	-22.28	peak
6010	51.86	-2.28	49.58	68.2	-18.62	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
5910	101.96	-1.97	99.99	122.2	-22.21	peak
5935	92.37	-2.13	90.24	110.8	-20.56	peak
5985	88.29	-2.65	85.64	105.2	-19.56	peak
6010	54.3	-2.28	52.02	68.2	-16.18	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11n20 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	55.3	-2.06	53.24	68.2	-14.96	peak
5750	88.53	-1.96	86.57	105.2	-18.63	peak
5800	94.03	-2.87	91.16	110.8	-19.64	peak
5825	113.51	-2.14	111.37	122.2	-10.83	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	55.49	-2.06	53.43	68.2	-14.77	peak
5750	95.94	-1.96	93.98	105.2	-11.22	peak
5800	94.87	-2.87	92	110.8	-18.8	peak
5825	109.72	-2.14	107.58	122.2	-14.62	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5910	108.21	-1.97	106.24	122.2	-15.96	peak
5935	92.48	-2.13	90.35	110.8	-20.45	peak
5985	96.52	-2.65	93.87	105.2	-11.33	peak
6010	53.37	-2.28	51.09	68.2	-17.11	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
5910	107.98	-1.97	106.01	122.2	-16.19	peak
5935	94.68	-2.13	92.55	110.8	-18.25	peak
5985	89.19	-2.65	86.54	105.2	-18.66	peak
6010	55.97	-2.28	53.69	68.2	-14.51	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11n40 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	58.67	-2.06	56.61	68.2	-11.59	peak
5740	91.16	-1.96	89.2	105.2	-16	peak
5790	93.33	-2.87	90.46	110.8	-20.34	peak
5815	109.45	-2.14	107.31	122.2	-14.89	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	59.12	-2.06	57.06	68.2	-11.14	peak
5740	91.91	-1.96	89.95	105.2	-15.25	peak
5790	97.8	-2.87	94.93	110.8	-15.87	peak
5815	110.83	-2.14	108.69	122.2	-13.51	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5900	105.89	-1.97	103.92	122.2	-18.28	peak
5925	92.01	-2.13	89.88	110.8	-20.92	peak
5975	87.67	-2.65	85.02	105.2	-20.18	peak
6000	53.91	-2.28	51.63	68.2	-16.57	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
5900	105.35	-1.97	103.38	122.2	-18.82	peak
5925	92.31	-2.13	90.18	110.8	-20.62	peak
5975	87.85	-2.65	85.2	105.2	-20	peak
6000	53.64	-2.28	51.36	68.2	-16.84	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac20 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	54.97	-2.06	52.91	68.2	-15.29	peak
5750	86.34	-1.96	84.38	105.2	-20.82	peak
5800	95.62	-2.87	92.75	110.8	-18.05	peak
5825	106.88	-2.14	104.74	122.2	-17.46	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	55.61	-2.06	53.55	68.2	-14.65	peak
5750	90.82	-1.96	88.86	105.2	-16.34	peak
5800	93.4	-2.87	90.53	110.8	-20.27	peak
5825	110.45	-2.14	108.31	122.2	-13.89	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5910	110.46	-1.97	108.49	122.2	-13.71	peak
5935	95.23	-2.13	93.1	110.8	-17.7	peak
5985	88.01	-2.65	85.36	105.2	-19.84	peak
6010	52.93	-2.28	50.65	68.2	-17.55	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5910	109.76	-1.97	107.79	122.2	-14.41	peak
5935	93.01	-2.13	90.88	110.8	-19.92	peak
5985	86.1	-2.65	83.45	105.2	-21.75	peak
6010	54.11	-2.28	51.83	68.2	-16.37	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac40 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	57.71	-2.06	55.65	68.2	-12.55	peak
5740	88.33	-1.96	86.37	105.2	-18.83	peak
5790	92.03	-2.87	89.16	110.8	-21.64	peak
5815	108.77	-2.14	106.63	122.2	-15.57	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	54.89	-2.06	52.83	68.2	-15.37	peak
5740	85.8	-1.96	83.84	105.2	-21.36	peak
5790	93.07	-2.87	90.2	110.8	-20.6	peak
5815	109.9	-2.14	107.76	122.2	-14.44	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5900	111.52	-1.97	109.55	122.2	-12.65	peak
5925	92.65	-2.13	90.52	110.8	-20.28	peak
5975	85.86	-2.65	83.21	105.2	-21.99	peak
6000	55.62	-2.28	53.34	68.2	-14.86	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5900	112.19	-1.97	110.22	122.2	-11.98	peak
5925	91.39	-2.13	89.26	110.8	-21.54	peak
5975	88.55	-2.65	85.9	105.2	-19.3	peak
6000	58.19	-2.28	55.91	68.2	-12.29	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac80 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5705	55.49	-2.06	53.43	68.2	-14.77	peak
5730	87.07	-1.96	85.11	105.2	-20.09	peak
5775	93.7	-2.87	90.83	110.8	-19.97	peak
5805	108.41	-2.14	106.27	122.2	-15.93	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5705	57.32	-2.06	55.26	68.2	-12.94	peak
5730	88.61	-1.96	86.65	105.2	-18.55	peak
5775	93.99	-2.87	91.12	110.8	-19.68	peak
5805	107.33	-2.14	105.19	122.2	-17.01	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5930	114.11	-1.97	112.14	122.2	-10.06	peak
5985	91.25	-2.13	89.12	110.8	-21.68	peak
6905	87.58	-2.65	84.93	105.2	-20.27	peak
6930	54.19	-2.28	51.91	68.2	-16.29	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
5930	109.83	-1.97	107.86	122.2	-14.34	peak
5985	92.83	-2.13	90.7	110.8	-20.1	peak
6905	88.33	-2.65	85.68	105.2	-19.52	peak
6930	55.45	-2.28	53.17	68.2	-15.03	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ac160 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5665	56.27	-2.06	54.21	68.2	-13.99	peak
5690	87.25	-1.96	85.29	105.2	-19.91	peak
5740	93.8	-2.87	90.93	110.8	-19.87	peak
5765	107.44	-2.14	105.3	122.2	-16.9	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5665	57.59	-2.06	55.53	68.2	-12.67	peak
5690	88.85	-1.96	86.89	105.2	-18.31	peak
5740	92.92	-2.87	90.05	110.8	-20.75	peak
5765	107.66	-2.14	105.52	122.2	-16.68	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5890	112.81	-1.97	110.84	122.2	-11.36	peak
5915	91.54	-2.13	89.41	110.8	-21.39	peak
5965	87.95	-2.65	85.3	105.2	-19.9	peak
5990	54.38	-2.28	52.1	68.2	-16.1	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5890	109.59	-1.97	107.62	122.2	-14.58	peak
5915	93.16	-2.13	91.03	110.8	-19.77	peak
5965	88.22	-2.65	85.57	105.2	-19.63	peak
5990	54.55	-2.28	52.27	68.2	-15.93	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ax20 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	57.42	-2.06	55.36	68.2	-12.84	peak
5750	89.08	-1.96	87.12	105.2	-18.08	peak
5800	93.58	-2.87	90.71	110.8	-20.09	peak
5825	111.92	-2.14	109.78	122.2	-12.42	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	58.51	-2.06	56.45	68.2	-11.75	peak
5750	91.54	-1.96	89.58	105.2	-15.62	peak
5800	93.02	-2.87	90.15	110.8	-20.65	peak
5825	109.65	-2.14	107.51	122.2	-14.69	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5910	109.75	-1.97	107.78	122.2	-14.42	peak
5935	94.05	-2.13	91.92	110.8	-18.88	peak
5985	86.04	-2.65	83.39	105.2	-21.81	peak
6010	55.24	-2.28	52.96	68.2	-15.24	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
5910	109.6	-1.97	107.63	122.2	-14.57	peak
5935	92.32	-2.13	90.19	110.8	-20.61	peak
5985	87.82	-2.65	85.17	105.2	-20.03	peak
6010	54.14	-2.28	51.86	68.2	-16.34	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ax40 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	57.17	-2.06	55.11	68.2	-13.09	peak
5740	86.05	-1.96	84.09	105.2	-21.11	peak
5790	93.63	-2.87	90.76	110.8	-20.04	peak
5815	109.17	-2.14	107.03	122.2	-15.17	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	56.37	-2.06	54.31	68.2	-13.89	peak
5740	88.89	-1.96	86.93	105.2	-18.27	peak
5790	92.44	-2.87	89.57	110.8	-21.23	peak
5815	109.97	-2.14	107.83	122.2	-14.37	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5900	109.92	-1.97	107.95	122.2	-14.25	peak
5925	94.93	-2.13	92.8	110.8	-18	peak
5975	88.9	-2.65	86.25	105.2	-18.95	peak
6000	54.02	-2.28	51.74	68.2	-16.46	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5900	112.28	-1.97	110.31	122.2	-11.89	peak
5925	93.79	-2.13	91.66	110.8	-19.14	peak
5975	88.51	-2.65	85.86	105.2	-19.34	peak
6000	59.65	-2.28	57.37	68.2	-10.83	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ax80 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5705	57.41	-2.06	55.35	68.2	-12.85	peak
5730	89.26	-1.96	87.3	105.2	-17.9	peak
5775	93.97	-2.87	91.1	110.8	-19.7	peak
5805	109.03	-2.14	106.89	122.2	-15.31	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5705	59.26	-2.06	57.2	68.2	-11	peak
5730	93.13	-1.96	91.17	105.2	-14.03	peak
5775	93.67	-2.87	90.8	110.8	-20	peak
5805	112.24	-2.14	110.1	122.2	-12.1	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5930	109.13	-1.97	107.16	122.2	-15.04	peak
5985	94.22	-2.13	92.09	110.8	-18.71	peak
6905	89.76	-2.65	87.11	105.2	-18.09	peak
6930	52.17	-2.28	49.89	68.2	-18.31	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5930	110.31	-1.97	108.34	122.2	-13.86	peak
5985	93.35	-2.13	91.22	110.8	-19.58	peak
6905	89.62	-2.65	86.97	105.2	-18.23	peak
6930	54.51	-2.28	52.23	68.2	-15.97	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11ax160 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5665	56.84	-2.06	54.78	68.2	-13.42	peak
5690	87.42	-1.96	85.46	105.2	-19.74	peak
5740	93.86	-2.87	90.99	110.8	-19.81	peak
5765	108.62	-2.14	106.48	122.2	-15.72	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5665	55.84	-2.06	53.78	68.2	-14.42	peak
5690	89.83	-1.96	87.87	105.2	-17.33	peak
5740	94.4	-2.87	91.53	110.8	-19.27	peak
5765	108.06	-2.14	105.92	122.2	-16.28	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5890	112.74	-1.97	110.77	122.2	-11.43	peak
5915	91.99	-2.13	89.86	110.8	-20.94	peak
5965	87.81	-2.65	85.16	105.2	-20.04	peak
5990	53.62	-2.28	51.34	68.2	-16.86	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
5890	108.57	-1.97	106.6	122.2	-15.6	peak
5915	93.26	-2.13	91.13	110.8	-19.67	peak
5965	88.8	-2.65	86.15	105.2	-19.05	peak
5990	54.31	-2.28	52.03	68.2	-16.17	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11be20 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	57.62	-2.06	55.56	68.2	-12.64	peak
5750	88.39	-1.96	86.43	105.2	-18.77	peak
5800	93.64	-2.87	90.77	110.8	-20.03	peak
5825	110.06	-2.14	107.92	122.2	-14.28	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725	59.24	-2.06	57.18	68.2	-11.02	peak
5750	91.46	-1.96	89.5	105.2	-15.7	peak
5800	93.34	-2.87	90.47	110.8	-20.33	peak
5825	108.83	-2.14	106.69	122.2	-15.51	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5910	108.56	-1.97	106.59	122.2	-15.61	peak
5935	93.6	-2.13	91.47	110.8	-19.33	peak
5985	87.35	-2.65	84.7	105.2	-20.5	peak
6010	55.6	-2.28	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 (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5910	109.44	-1.97	107.47	122.2	-14.73	peak
5935	93.61	-2.13	91.48	110.8	-19.32	peak
5985	87.51	-2.65	84.86	105.2	-20.34	peak
6010	54.08	-2.28	51.8	68.2	-16.4	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11be40 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	57.83	-2.06	55.77	68.2	-12.43	peak
5740	87.06	-1.96	85.1	105.2	-20.1	peak
5790	93.99	-2.87	91.12	110.8	-19.68	peak
5815	108.78	-2.14	106.64	122.2	-15.56	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5715	56.43	-2.06	54.37	68.2	-13.83	peak
5740	88.63	-1.96	86.67	105.2	-18.53	peak
5790	93.4	-2.87	90.53	110.8	-20.27	peak
5815	109.58	-2.14	107.44	122.2	-14.76	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5900	110.11	-1.97	108.14	122.2	-14.06	peak
5925	94.23	-2.13	92.1	110.8	-18.7	peak
5975	89.59	-2.65	86.94	105.2	-18.26	peak
6000	54.31	-2.28	52.03	68.2	-16.17	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5900	110.92	-1.97	108.95	122.2	-13.25	peak
5925	93.77	-2.13	91.64	110.8	-19.16	peak
5975	90.05	-2.65	87.4	105.2	-17.8	peak
6000	58.82	-2.28	56.54	68.2	-11.66	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11be80 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5705	56.98	-2.06	54.92	68.2	-13.28	peak
5730	89.08	-1.96	87.12	105.2	-18.08	peak
5775	92.79	-2.87	89.92	110.8	-20.88	peak
5805	110.11	-2.14	107.97	122.2	-14.23	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5705	58.94	-2.06	56.88	68.2	-11.32	peak
5730	94.37	-1.96	92.41	105.2	-12.79	peak
5775	94.69	-2.87	91.82	110.8	-18.98	peak
5805	111.64	-2.14	109.5	122.2	-12.7	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5930	109.98	-1.97	108.01	122.2	-14.19	peak
5985	94.38	-2.13	92.25	110.8	-18.55	peak
6905	88.58	-2.65	85.93	105.2	-19.27	peak
6930	52.75	-2.28	50.47	68.2	-17.73	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5930	111.02	-1.97	109.05	122.2	-13.15	peak
5985	93.14	-2.13	91.01	110.8	-19.79	peak
6905	89.97	-2.65	87.32	105.2	-17.88	peak
6930	54.79	-2.28	52.51	68.2	-15.69	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: 802.11be160 Mode with 5.9G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5665	55.66	-2.06	53.6	68.2	-14.6	peak
5690	87.22	-1.96	85.26	105.2	-19.94	peak
5740	93.77	-2.87	90.9	110.8	-19.9	peak
5765	107.8	-2.14	105.66	122.2	-16.54	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5665	57.14	-2.06	55.08	68.2	-13.12	peak
5690	89.84	-1.96	87.88	105.2	-17.32	peak
5740	93.74	-2.87	90.87	110.8	-19.93	peak
5765	107.95	-2.14	105.81	122.2	-16.39	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Operation Mode: TX CH High with 5.9G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5890	113.15	-1.97	111.18	122.2	-11.02	peak
5915	92.2	-2.13	90.07	110.8	-20.73	peak
5965	88.56	-2.65	85.91	105.2	-19.29	peak
5990	55.05	-2.28	52.77	68.2	-15.43	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

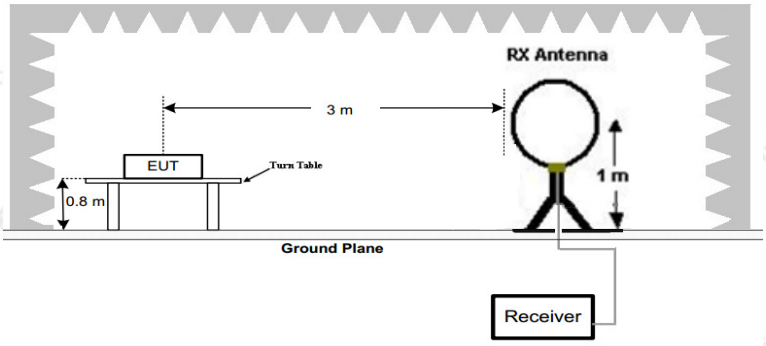
Vertical:

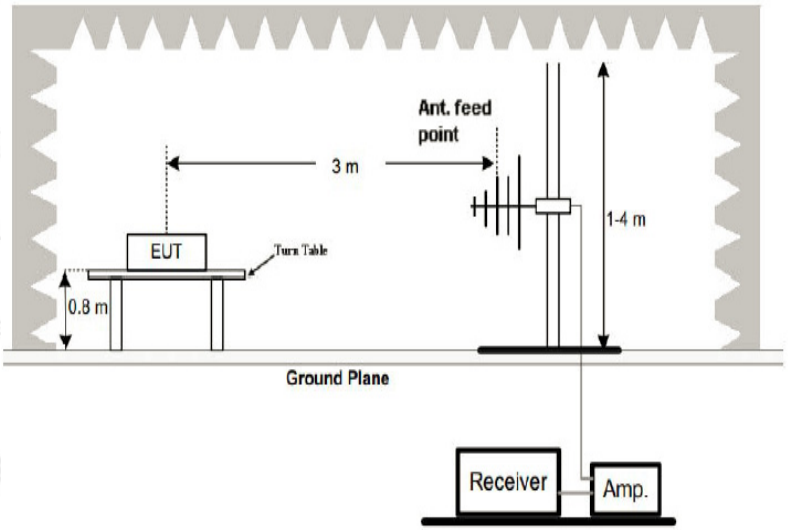
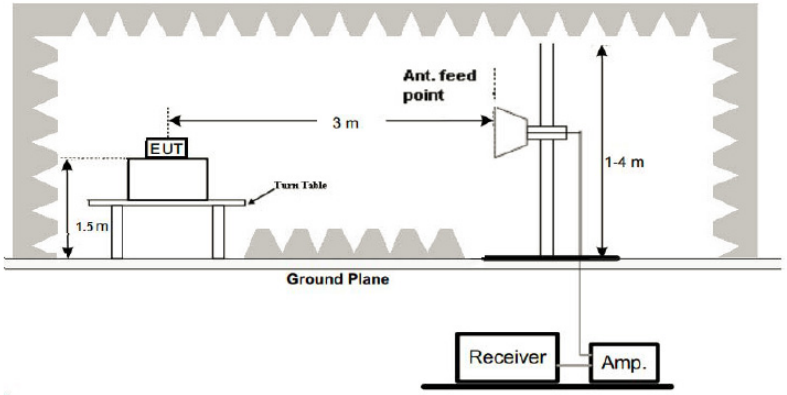
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5890	108.58	-1.97	106.61	122.2	-15.59	peak
5915	92.06	-2.13	89.93	110.8	-20.87	peak
5965	87.37	-2.65	84.72	105.2	-20.48	peak
5990	55.65	-2.28	53.37	68.2	-14.83	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

4.7 Spurious Emission

4.7.1 Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205</td></tr>
<tr><td>Test Method:</td><td>KDB 789033 D02 v02r01</td></tr>
<tr><td>Frequency Range:</td><td>9kHz to 40GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Operation Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<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>
</table>
</td></tr>
<tr><td>Limit:</td><td>(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of −7 dBm/MHz at or above 5.925 GHz.
(ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz.
(iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

The limit of frequency below 1GHz and which fall in restricted b ands should complies 15.209.</td></tr>
<tr><td>Test Setup:</td><td>For radiated emissions below 30MHz
 
</td></tr>
</table>

	30MHz to 1GHz  Above 1GHz 
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.

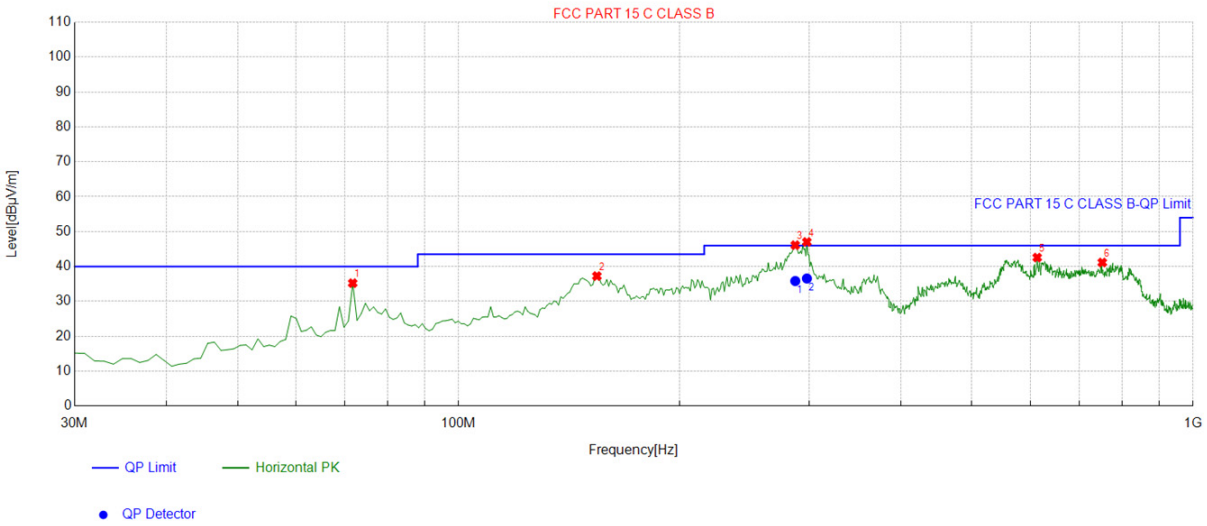
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions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

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

Horizontal

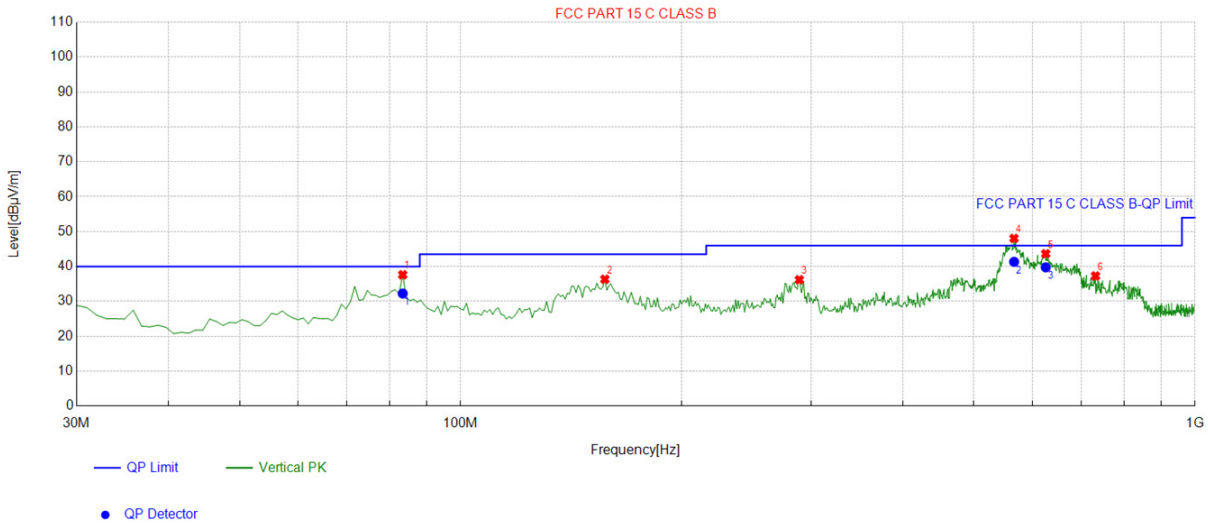


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	71.751752	-17.38	52.60	35.22	40.00	4.78	100	239	Horizontal
2	154.28428	-17.76	55.01	37.25	43.50	6.25	100	210	Horizontal
3	287.30730	-12.28	58.39	46.11	46.00	-0.11	100	201	Horizontal
4	297.98798	-11.79	58.82	47.03	46.00	-1.03	100	218	Horizontal
5	613.55355	-5.55	48.11	42.56	46.00	3.44	100	178	Horizontal
6	752.40240	-4.24	45.38	41.14	46.00	4.86	100	143	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	287.3073	-12.28	48.12	35.84	46.00	10.16	100	201	Horizontal
2	297.9879	-11.79	48.35	36.56	46.00	9.44	100	218	Horizontal

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

Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	83.403403	-18.05	55.68	37.63	40.00	2.37	100	122	Vertical
2	157.19719	-17.77	54.10	36.33	43.50	7.17	100	353	Vertical
3	289.24924	-12.10	48.29	36.19	46.00	9.81	100	139	Vertical
4	566.94694	-6.08	54.13	48.05	46.00	-2.05	100	247	Vertical
5	626.17617	-5.35	48.99	43.64	46.00	2.36	100	281	Vertical
6	732.01201	-3.49	40.77	37.28	46.00	8.72	100	104	Vertical

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	83.40340	-18.05	50.31	32.26	40.00	7.74	100	122	Vertical
2	566.9469	-6.08	47.42	41.34	46.00	4.66	100	247	Vertical
3	626.1761	-5.35	45.11	39.76	46.00	6.24	100	281	Vertical

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

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

LOW CH 169 (802.11 a Mode with 5.9G)/5845
All modes of operation were investigated and the worst-case of Ant. 2 are reported.

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	52.64	-4.59	48.05	74	-25.95	peak
3368	43.47	-4.59	38.88	54	-15.12	AVG
11890	47.85	4.21	52.06	68.2	-16.14	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	58.52	-4.59	53.93	74	-20.07	peak
3368	48.32	-4.59	43.73	54	-10.27	AVG
11890	53.13	4.21	57.34	68.2	-10.86	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

MID CH173 (802.11 a Mode with 5.9G)/5865

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	58.59	-4.59	54	74	-20	peak
3172	47.43	-4.59	42.84	54	-11.16	AVG
11730	51.42	4.21	55.63	68.2	-12.57	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	56.57	-4.59	51.98	74	-22.02	peak
3172	46.62	-4.59	42.03	54	-11.97	AVG
11730	52.62	4.21	56.83	68.2	-11.37	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH 177 (802.11a Mode with 5.9G)/5885

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	56.51	-4.59	51.92	68.2	-16.28	peak
11770	53.39	4.84	58.23	68.2	-9.97	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.45	-4.59	54.86	68.2	-13.34	peak
11770	50.16	4.84	55	68.2	-13.2	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11n20 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 169

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	51.83	-4.59	47.24	74	-26.76	peak
3368	41.54	-4.59	36.95	54	-17.05	AVG
11690	56.83	4.21	61.04	68.2	-7.16	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	53.51	-4.59	48.92	74	-25.08	peak
3368	42.71	-4.59	38.12	54	-15.88	AVG
11690	54.23	4.21	58.44	68.2	-9.76	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

MID CH173

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	52.68	-4.59	48.09	74	-25.91	peak
3172	40.7	-4.59	36.11	54	-17.89	AVG
11730	53.05	4.21	57.26	68.2	-10.94	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	55.28	-4.59	50.69	74	-23.31	peak
3172	46.06	-4.59	41.47	54	-12.53	AVG
11730	54.1	4.21	58.31	68.2	-9.89	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH177

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	58.6	-4.59	54.01	68.2	-14.19	peak
11770	55.07	4.84	59.91	68.2	-8.29	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.51	-4.59	55.92	68.2	-12.28	peak
11770	53.05	4.84	57.89	68.2	-10.31	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11n40 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 167

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	52.16	-4.59	47.57	74	-26.43	peak
3368	45.9	-4.59	41.31	54	-12.69	AVG
11670	51.82	4.21	56.03	68.2	-12.17	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	51.65	-4.59	47.06	74	-26.94	peak
3368	44.26	-4.59	39.67	54	-14.33	AVG
11670	56.84	4.21	61.05	68.2	-7.15	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH175

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	57.7	-4.59	53.11	74	-20.89	peak
3172	46.87	-4.59	42.28	54	-11.72	AVG
11750	51.49	4.21	55.7	68.2	-12.5	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	56.09	-4.59	51.5	74	-22.5	peak
3172	46.82	-4.59	42.23	54	-11.77	AVG
11750	51.18	4.21	55.39	68.2	-12.81	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ac20 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 169

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	50.98	-4.59	46.39	74	-27.61	peak
3368	41.25	-4.59	36.66	54	-17.34	AVG
11690	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.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	49.84	-4.59	45.25	74	-28.75	peak
3368	41.54	-4.59	36.95	54	-17.05	AVG
11690	56.62	4.21	60.83	68.2	-7.37	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

MID CH173

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	50.07	-4.59	45.48	74	-28.52	peak
3172	40.12	-4.59	35.53	54	-18.47	AVG
11730	52.16	4.21	56.37	68.2	-11.83	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	49.78	-4.59	45.19	74	-28.81	peak
3172	42.48	-4.59	37.89	54	-16.11	AVG
11730	51.76	4.21	55.97	68.2	-12.23	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH177

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	61.21	-4.59	56.62	68.2	-11.58	peak
11770	48.86	4.84	53.7	68.2	-14.5	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.25	-4.59	54.66	68.2	-13.54	peak
11770	51.88	4.84	56.72	68.2	-11.48	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ac40 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 167

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	60.26	-4.59	55.67	74	-18.33	peak
3368	50.27	-4.59	45.68	54	-8.32	AVG
11670	56.78	4.21	60.99	68.2	-7.21	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	59.49	-4.59	54.9	74	-19.1	peak
3368	45.33	-4.59	40.74	54	-13.26	AVG
11670	57.03	4.21	61.24	74	-12.76	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH175

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	58.68	-4.59	54.09	74	-19.91	peak
3172	48.51	-4.59	43.92	54	-10.08	AVG
11750	52.86	4.21	57.07	68.2	-11.13	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	58.06	-4.59	53.47	74	-20.53	peak
3172	44.65	-4.59	40.06	54	-13.94	AVG
11750	50.13	4.21	54.34	68.2	-13.86	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ac80 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
CH 171

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	54.02	-4.59	49.43	74	-24.57	peak
3368	45.2	-4.59	40.61	54	-13.39	AVG
11710	56.78	4.21	60.99	68.2	-7.21	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	58.9	-4.59	54.31	74	-19.69	peak
3368	47.97	-4.59	43.38	54	-10.62	AVG
11710	55.29	4.21	59.5	68.2	-8.7	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ac160 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
CH 163

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.44	-4.59	50.85	74	-23.15	peak
3368	43.96	-4.59	39.37	54	-14.63	AVG
11630	50.91	4.21	55.12	68.2	-13.08	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	54.91	-4.59	50.32	74	-23.68	peak
3368	42.69	-4.59	38.1	54	-15.9	AVG
11630	51.52	4.21	55.73	68.2	-12.47	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ax20 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 169

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	51.09	-4.59	46.5	74	-27.5	peak
3368	41.81	-4.59	37.22	54	-16.78	AVG
11690	50.89	4.21	55.1	68.2	-13.1	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	50.83	-4.59	46.24	74	-27.76	peak
3368	42.36	-4.59	37.77	54	-16.23	AVG
11690	57.83	4.21	62.04	68.2	-6.16	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

MID CH173

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	51.96	-4.59	47.37	74	-26.63	peak
3172	41.7	-4.59	37.11	54	-16.89	AVG
11730	52.23	4.21	56.44	68.2	-11.76	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	51.53	-4.59	46.94	74	-27.06	peak
3172	41.38	-4.59	36.79	54	-17.21	AVG
11730	52.23	4.21	56.44	68.2	-11.76	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH177

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	61.73	-4.59	57.14	68.2	-11.06	peak
11770	49.75	4.84	54.59	68.2	-13.61	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	58.38	-4.59	53.79	68.2	-14.41	peak
11770	51.98	4.84	56.82	68.2	-11.38	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ax40 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 167

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.09	-4.59	56.5	74	-17.5	peak
3368	51.56	-4.59	46.97	54	-7.03	AVG
11670	61.09	4.21	65.3	68.2	-2.9	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	57.94	-4.59	53.35	74	-20.65	peak
3368	43.91	-4.59	39.32	54	-14.68	AVG
11670	57.16	4.21	61.37	74	-12.63	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH175

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	58.09	-4.59	53.5	74	-20.5	peak
3172	47.71	-4.59	43.12	54	-10.88	AVG
11750	52.41	4.21	56.62	68.2	-11.58	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	56.53	-4.59	51.94	74	-22.06	peak
3172	45.52	-4.59	40.93	54	-13.07	AVG
11750	50.63	4.21	54.84	68.2	-13.36	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ax80 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
CH 171

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.41	-4.59	50.82	74	-23.18	peak
3368	44.05	-4.59	39.46	54	-14.54	AVG
11710	57.01	4.21	61.22	68.2	-6.98	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	59.09	-4.59	54.5	74	-19.5	peak
3368	46.87	-4.59	42.28	54	-11.72	AVG
11710	55.22	4.21	59.43	68.2	-8.77	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11ax160 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
CH 163

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.51	-4.59	50.92	74	-23.08	peak
3368	45.33	-4.59	40.74	54	-13.26	AVG
11630	51.53	4.21	55.74	68.2	-12.46	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.2	-4.59	50.61	74	-23.39	peak
3368	41.43	-4.59	36.84	54	-17.16	AVG
11630	51.64	4.21	55.85	68.2	-12.35	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11be20 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 169

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	51.94	-4.59	47.35	74	-26.65	peak
3368	41.14	-4.59	36.55	54	-17.45	AVG
11690	52.35	4.21	56.56	68.2	-11.64	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	50.81	-4.59	46.22	74	-27.78	peak
3368	41.69	-4.59	37.1	54	-16.9	AVG
11690	57.97	4.21	62.18	68.2	-6.02	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

MID CH173

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	50.71	-4.59	46.12	74	-27.88	peak
3172	40.95	-4.59	36.36	54	-17.64	AVG
11730	52.28	4.21	56.49	68.2	-11.71	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	51.23	-4.59	46.64	74	-27.36	peak
3172	41.69	-4.59	37.1	54	-16.9	AVG
11730	51.77	4.21	55.98	68.2	-12.22	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH177

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.06	-4.59	55.47	68.2	-12.73	peak
11770	48.98	4.84	53.82	68.2	-14.38	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	58.69	-4.59	54.1	68.2	-14.1	peak
11770	52.45	4.84	57.29	68.2	-10.91	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11be40 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
LOW CH 167

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	60.47	-4.59	55.88	74	-18.12	peak
3368	51.01	-4.59	46.42	54	-7.58	AVG
11670	57.58	4.21	61.79	68.2	-6.41	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	58.07	-4.59	53.48	74	-20.52	peak
3368	44.56	-4.59	39.97	54	-14.03	AVG
11670	56.68	4.21	60.89	74	-13.11	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

HIGH CH175

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	57.48	-4.59	52.89	74	-21.11	peak
3172	48.44	-4.59	43.85	54	-10.15	AVG
11750	51.65	4.21	55.86	68.2	-12.34	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	57.31	-4.59	52.72	74	-21.28	peak
3172	44.67	-4.59	40.08	54	-13.92	AVG
11750	51.1	4.21	55.31	68.2	-12.89	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11be80 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
CH 171

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.17	-4.59	50.58	74	-23.42	peak
3368	43.88	-4.59	39.29	54	-14.71	AVG
11710	56.32	4.21	60.53	68.2	-7.67	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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	58.69	-4.59	54.1	74	-19.9	peak
3368	47.06	-4.59	42.47	54	-11.53	AVG
11710	54.72	4.21	58.93	68.2	-9.27	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.9G 802.11be160 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.
CH 163

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	54.73	-4.59	50.14	74	-23.86	peak
3368	43.83	-4.59	39.24	54	-14.76	AVG
11630	50.48	4.21	54.69	68.2	-13.51	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

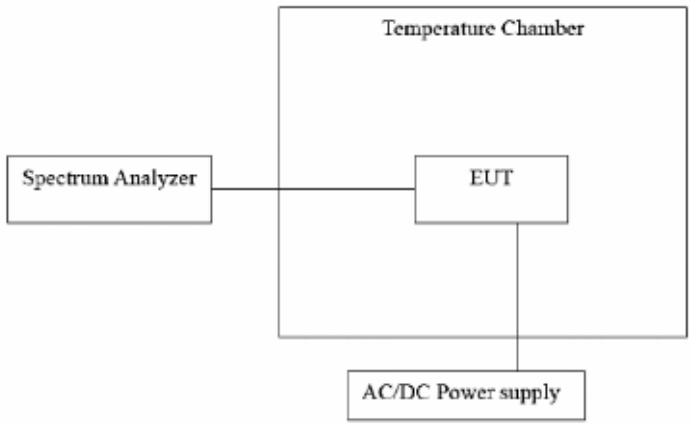
Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	54.67	-4.59	50.08	74	-23.92	peak
3368	42.73	-4.59	38.14	54	-15.86	AVG
11630	49.96	4.21	54.17	68.2	-14.03	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

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

Test Result as follows:

Mode	Voltage (V)	FHL (5815MHz)	Deviation (KHz)	FHH (5885MHz)	Deviation (KHz)
5.9G Band	102V	5814.981	-19	5884.978	-22
	120V	5815.009	9	5885.021	21
	138V	5815.027	27	5884.977	-23

Mode	Temperature (℃)	FHL (5815MHz)	Deviation (KHz)	FHH (5885MHz)	Deviation (KHz)
5.9G Band	-30	5814.963	-37	5884.961	-39
	-20	5814.985	-15	5884.919	-81
	-10	5814.959	-41	5885.033	33
	0	5815.037	37	5885.054	54
	10	5814.999	-1	5885.035	35
	20	5815.035	35	5884.949	-51
	30	5814.965	-35	5885.032	32
	40	5814.967	-33	5885.011	11
	50	5815.029	29	5885.002	2

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.

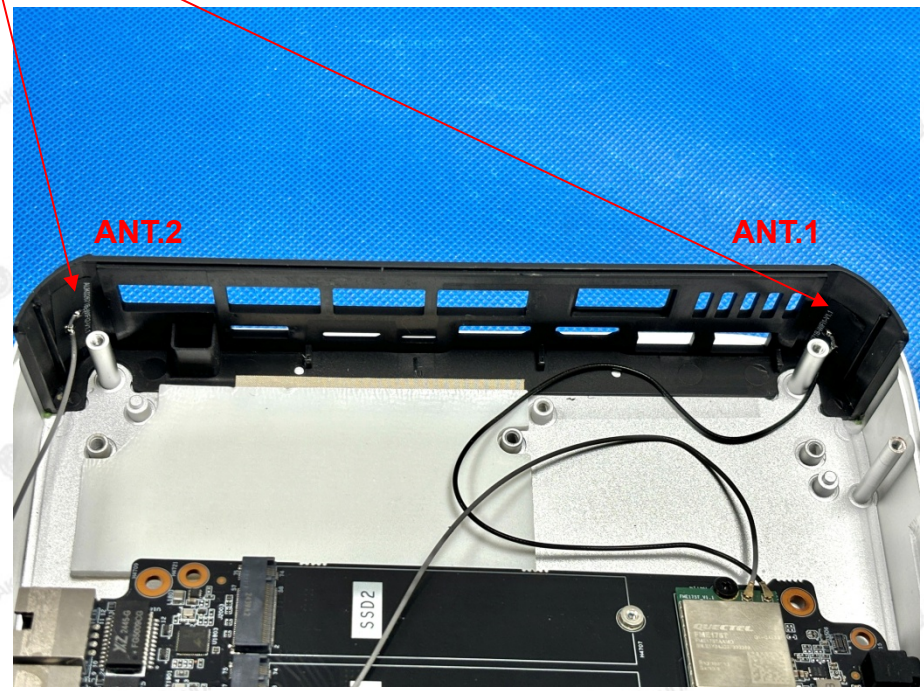
Refer to statement below for compliance.

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

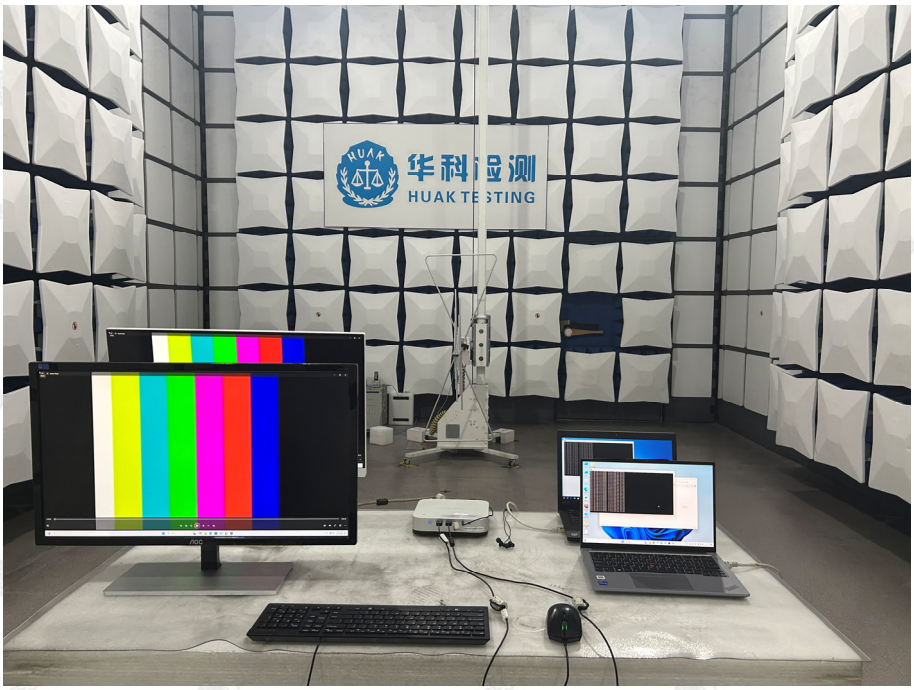
The antenna used in this product is FPC antenna, need professional installation, not easy to remove. It conforms to the standard requirements. and the best case gain of the antenna is Antenna port 1: 2.42dBi and Antenna port 2: 3.25dBi.

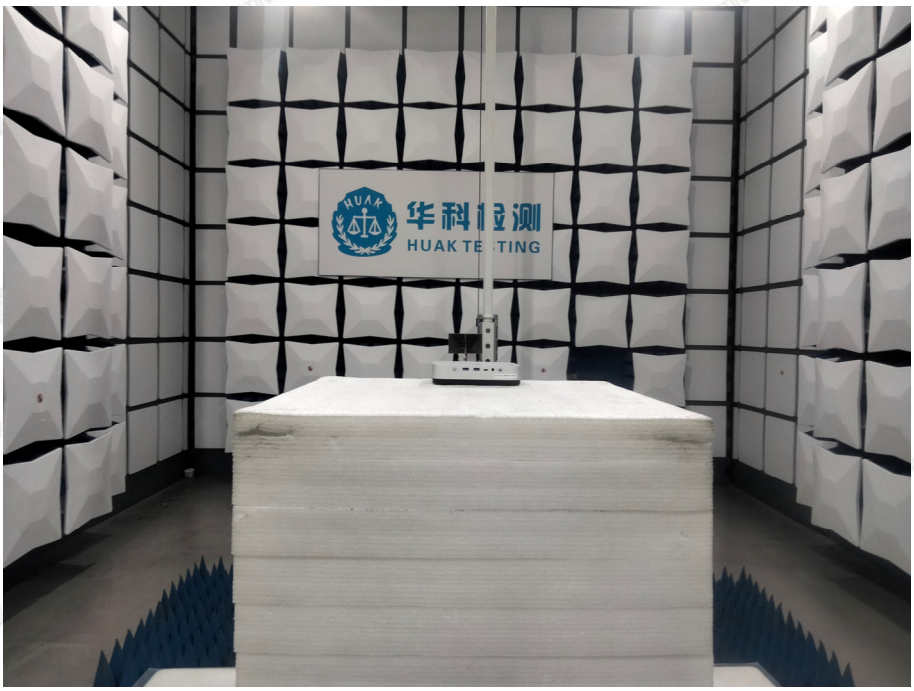
WIFI ANTENNA



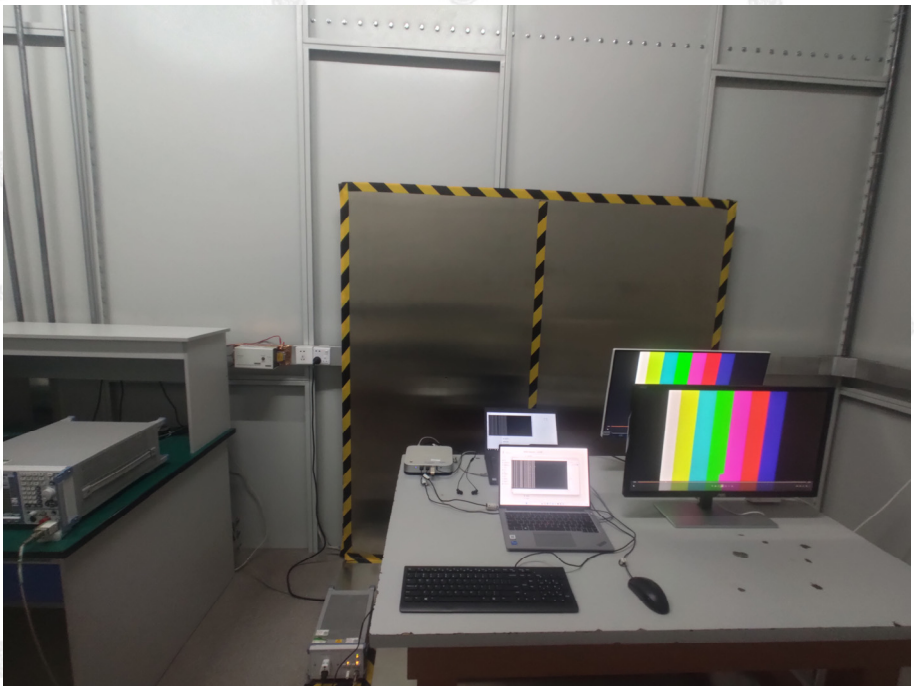
5. Photographs of Test Setup

Radiated Emission





Conducted Emission



TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

6. Photos of the EUT

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

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

TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China