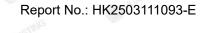
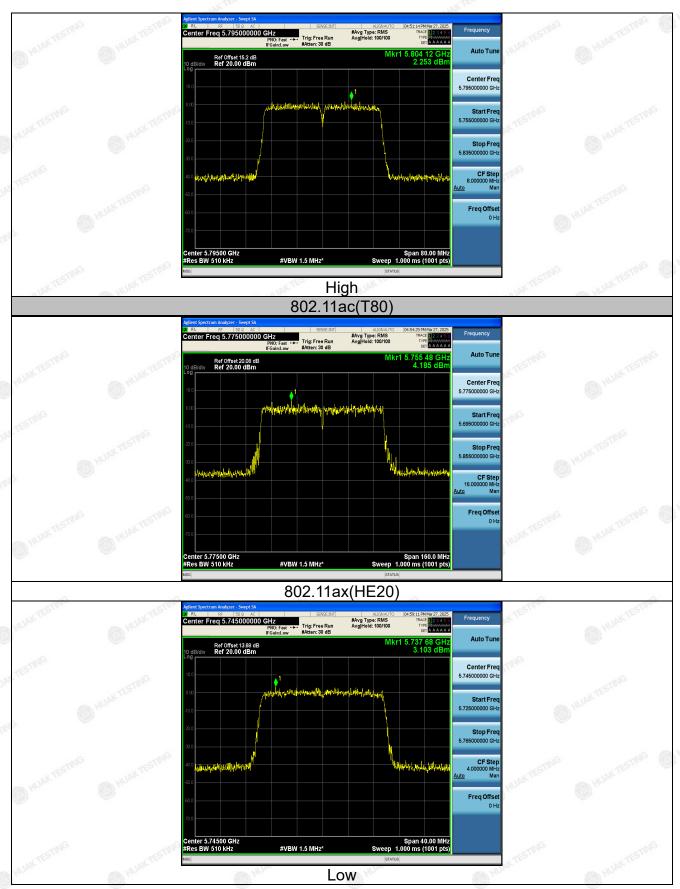


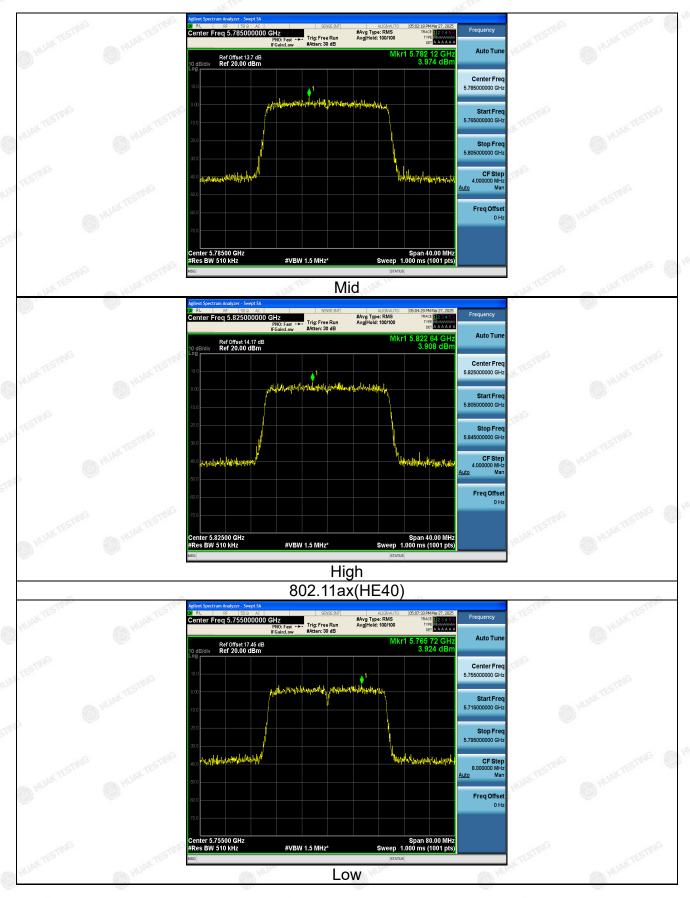
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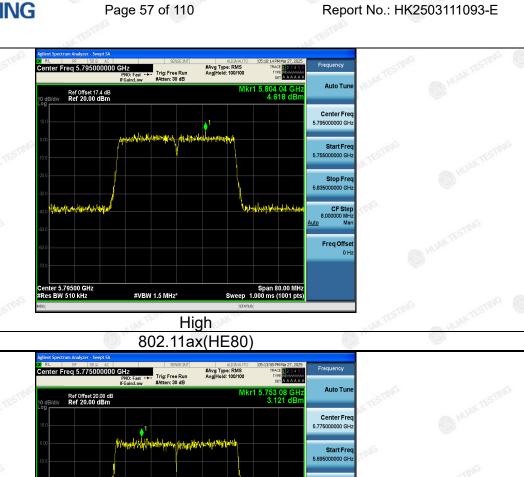
Low

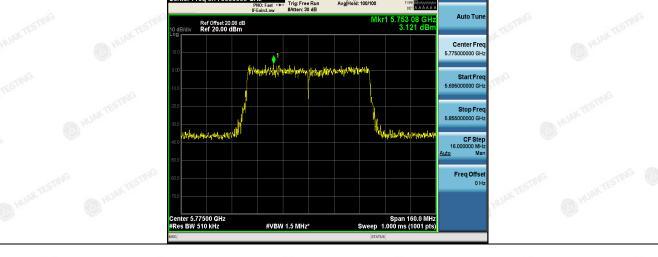
#VBW 1.5 MHz*













For MIMO antenna port 1+antenna port 2

Configuration Band IV (5725 - 5850 MHz)

Mode	Test Channel	Power Density (dBm)	Limit (dBm)	Result
802.11n(HT20)	CH149	4.54	30	PASS
802.11n(HT20)	CH157	4.67	30	PASS
802.11n(HT20)	CH161	4.82	30	PASS
802.11n(HT40)	CH151	6.66	30	PASS
802.11n(HT40)	CH159	6.51	30 MAK TESTING	PASS
802.11ac(HT20)	CH149	4.71	30	PASS
802.11ac(HT20)	CH157	4.47	30	PASS
802.11ac(HT20)	CH161	5.51	30 _{11,11} restin	PASS
802.11ac(HT40)	CH151	4.40	30	PASS
802.11ac(HT40)	CH159	4.62	30	PASS
802.11ac(HT80)	CH155	6.71	30	PASS
802.11ax(HE20)	CH149	6.44	30	PASS
802.11ax(HE20)	CH157	7.13	30 TESTING	PASS
802.11ax(HE20)	CH161	7.07	30	PASS
802.11ax(HE40)	CH151	7.39	30	PASS
802.11ax(HE40)	CH159	7.16	ESTING 30 MATESTING	PASS
802.11ax(HE80)	CH155	5.20	30	PASS

Note:

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

^{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=30dBm-(direction gain-6dBi)=30dBm



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:	(1)For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.						
Test Setup:	Ant. feed point Tun Table Ground Plane Receiver Amp.						
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. 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							

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4.6.3 Test Data

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

Report No.: HK2503111093-E

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

Horizontal:

		A13.00 V V	AUX 81	J13.00s.		2012by X.1
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	53.23	-2.06	51.17	68.2	-17.03	peak
5700	87.94	-1.96	85.98	105.2	-19.22	peak
5720	95.66	-2.87	92.79	110.8	-18.01	peak
5725	109.07	-2.14	106.93	122.2	-15.27	peak

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

Vertical::

		2000.	200, 11	203,000		2000, 17
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	58.52	-2.06	56.46	68.2	-11.74	peak
5700	87.18	-1.96	85.22	105.2	-19.98	peak
5720	94.49	-2.87	91.62	110.8	-19.18	peak
5725	110.63	-2.14	108.49	122.2	-13.71	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	109.81	-1.97	107.84	122.2	-14.36	peak
5855	94.92	-2.13	92.79	110.8	-18.01	peak
5875	86.06	-2.65	83.41	105.2	-21.79	peak
5925	51.75	-2.28	49.47	68.2	-18.73	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	103.41	-1.97	101.44	122.2	-20.76	peak
5855	93.26	-2.13	91.13	110.8	-19.67	peak
5875	87.07	-2.65	84.42	105.2	-20.78	peak
5925	54.98	-2.28	52.7	68.2	-15.5	peak

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

Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal:

~ES	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data ata Timo
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
MG	5650	56.63	-2.06	54.57	68.2	-13.63	peak
	5700	89.52	-1.96	87.56	105.2	-17.64	peak
	5720	95.18	-2.87	92.31	110.8	-18.49	peak
	5725	113.82	-2.14	111.68	122.2	-10.52	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)	Detector Type
5650	56.19	-2.06	54.13	68.2	-14.07	peak
5700	96.25	-1.96	94.29	105.2	-10.91	peak
5720	95.02	-2.87	92.15	110.8	-18.65	peak
5725	111.71	-2.14	109.57	122.2	-12.63	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Typo
ALT	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
. 16	5850	109.94	-1.97	107.97	122.2	-14.23	peak
500	5855	93.12	-2.13	90.99	110.8	-19.81	peak
	5875	97.86	-2.65	95.21	105.2	-9.99	peak
	5925	53.02	-2.28	50.74	68.2	-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)	Detector Type
5850	107.44	-1.97	105.47	122.2	-16.73	peak
5855	94.28	-2.13	92.15	110.8	-18.65	peak
5875	88.12	-2.65	85.47	105.2	-19.73	peak
5925	56.35	-2.28	54.07	68.2	-14.13	peak

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

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Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	58.63	-2.06	56.57	68.2	-11.63	peak
5700	91.97	-1.96	90.01	105.2	-15.19	peak
5720	93.12	-2.87	90.25	110.8	-20.55	peak
5725	110.71	-2.14	108.57	122.2	-13.63	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)	Detector Type
5650	58.45	-2.06	56.39	68.2	-11.81	peak
5700	91.29	-1.96	89.33	105.2	-15.87	peak
5720	98.03	-2.87	95.16	110.8	-15.64	peak
5725	111.86	-2.14	109.72	122.2	-12.48	peak

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

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	106.14	-1.97	104.17	122.2	-18.03	peak
5855	92.25	-2.13	90.12	110.8	-20.68	peak
5875	88.09	-2.65	85.44	105.2	-19.76	peak
5925	53.87	-2.28	51.59	68.2	-16.61	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)	- Detector Type
5850	106.42	-1.97	104.45	122.2	-17.75	peak
5855	92.14	-2.13	90.01	110.8	-20.79	peak
5875	88.99	-2.65	86.34	105.2	-18.86	peak
5925	53.82	-2.28	51.54	68.2	-16.66	peak

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

Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	56.47	-2.06	54.41	68.2	-13.79	peak
5700	87.83	-1.96	85.87	105.2	-19.33	peak
5720	95.32	-2.87	92.45	110.8	-18.35	peak
5725	108.11	-2.14	105.97	122.2	-16.23	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)	
5650	56.36	-2.06	54.3	68.2	-13.9	peak
5700	90.92	-1.96	88.96	105.2	-16.24	peak
5720	94.85	-2.87	91.98	110.8	-18.82	peak
5725	110.31	-2.14	108.17	122.2	-14.03	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	110.49	-1.97	108.52	122.2	-13.68	peak
5855	93.36	-2.13	91.23	110.8	-19.57	peak
5875	88.04	-2.65	85.39	105.2	-19.81	peak
5925	53.78	-2.28	51.5	68.2	-16.7	peak

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

Vertical:

TES	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
2	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
TING	5850	109.35	-1.97	107.38	122.2	-14.82	peak
	5855	93.21	-2.13	91.08	110.8	-19.72	peak
	5875	87.09	-2.65	84.44	105.2	-20.76	peak
	5925	55.46	-2.28	53.18	68.2	-15.02	peak

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

Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tyra
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	57.83	-2.06	55.77	68.2	-12.43	peak
5700	88.39	-1.96	86.43	105.2	-18.77	peak
5720	92.54	-2.87	89.67	110.8	-21.13	peak
5725	109.16	-2.14	107.02	122.2	-15.18	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	55.79	-2.06	53.73	68.2	-14.47	peak
5700	87.04	-1.96	85.08	105.2	-20.12	peak
5720	93.25	-2.87	90.38	110.8	-20.42	peak
5725	110.17	-2.14	108.03	122.2	-14.17	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	112.92	-1.97	110.95	122.2	-11.25	peak
5855	92.65	-2.13	90.52	110.8	-20.28	peak
5875	87.18	-2.65	84.53	105.2	-20.67	peak
5925	57.24	-2.28	54.96	68.2	-13.24	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data lak TESTIN
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	112.03	-1.97	110.06	122.2	-12.14	peak
5855	92.72	-2.13	90.59	110.8	-20.21	peak
5875	88.37	-2.65	85.72	105.2	-19.48	peak
5925	58.06	-2.28	55.78	68.2	-12.42	peak

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



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tyra
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	56.49	-2.06	54.43	68.2	-13.77	peak
5700	88.51	-1.96	86.55	105.2	-18.65	peak
5720	93.92	-2.87	91.05	110.8	-19.75	peak
5725	108.57	-2.14	106.43	122.2	-15.77	peak

Report No.: HK2503111093-E

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)	- Detector Type
5650	57.22	-2.06	55.16	68.2	-13.04	peak
5700	89.54	-1.96	87.58	105.2	-17.62	peak
5720	94.09	-2.87	91.22	110.8	-19.58	peak
5725	108.22	-2.14	106.08	122.2	-16.12	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	113.22	-1.97	111.25	122.2	-10.95	peak
5855	92.84	-2.13	90.71	110.8	-20.09	peak
5875	88.31	-2.65	85.66	105.2	-19.54	peak
5925	55.46	-2.28	53.18	68.2	-15.02	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atak Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	109.84	-1.97	107.87	122.2	-14.33	peak
5855	93.52	-2.13	91.39	110.8	-19.41	peak
5875	88.89	-2.65	86.24	105.2	-18.96	peak
5925	55.21	-2.28	52.93	68.2	-15.27	peak

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

Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tyra
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	57.18	-2.06	55.12	68.2	-13.08	peak
5700	89.02	-1.96	87.06	105.2	-18.14	peak
5720	94.74	-2.87	91.87	110.8	-18.93	peak
5725	111.47	-2.14	109.33	122.2	-12.87	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)	Detector Type
5650	58.97	-2.06	56.91	68.2	-11.29	peak
5700	91.81	-1.96	89.85	105.2	-15.35	peak
5720	93.09	-2.87	90.22	110.8	-20.58	peak
5725	112.45	-2.14	110.31	122.2	-11.89	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Type
AL TE	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
.vG	5850	109.82	-1.97	107.85	122.2	-14.35	peak
5111	5855	94.06	-2.13	91.93	110.8	-18.87	peak
	5875	87.11	-2.65	84.46	105.2	-20.74	peak
	5925	55.25	-2.28	52.97	68.2	-15.23	peak

Report No.: HK2503111093-E

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	110.54	-1.97	108.57	122.2	-13.63	peak
5855	93.89	-2.13	91.76	110.8	-19.04	peak
5875	88.07	-2.65	85.42	105.2	-19.78	peak
5925	54.36	-2.28	52.08	68.2	-16.12	peak

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

Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	57.81	-2.06	55.75	68.2	-12.45	peak
5700	87.49	-1.96	85.53	105.2	-19.67	peak
5720	94.21	-2.87	91.34	110.8	-19.46	peak
5725	109.82	-2.14	107.68	122.2	-14.52	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)	Detector Type
5650	56.07	-2.06	54.01	68.2	-14.19	peak
5700	89.12	-1.96	87.16	105.2	-18.04	peak
5720	93.23	-2.87	90.36	110.8	-20.44	peak
5725	110.21	-2.14	108.07	122.2	-14.13	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Type
AL TES	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
лG	5850	110.62	-1.97	108.65	122.2	-13.55	peak
51111	5855	94.79	-2.13	92.66	110.8	-18.14	peak
	5875	89.91	-2.65	87.26	105.2	-17.94	peak
	5925	55.27	-2.28	52.99	68.2	-15.21	peak

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

Vertical:

TES	requency	Meter Reading	Factor	Emission Level	Limits	Margin	— Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
₩ ^G	5850	111.83	-1.97	109.86	122.2	-12.34	peak
	5855	94.51	-2.13	92.38	110.8	-18.42	peak
	5875	89.88	-2.65	87.23	105.2	-17.97	peak
	5925	60.14	-2.28	57.86	68.2	-10.34	peak

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

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Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	58.25	-2.06	56.19	68.2	-12.01	peak
5700	89.88	-1.96	87.92	105.2	-17.28	peak
5720	94.09	-2.87	91.22	110.8	-19.58	peak
5725	110.12	-2.14	107.98	122.2	-14.22	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) (dBμV/m) (dB)		Detector Type
5650	58.81	-2.06	56.75	68.2	-11.45	peak
5700	94.32	-1.96	92.36	105.2	-12.84	peak
5720	95.13	-2.87	92.26	110.8	-18.54	peak
5725	111.72	-2.14	109.58	122.2	-12.62	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	109.22	-1.97	107.25	122.2	-14.95	peak
5855	94.19	-2.13	92.06	110.8	-18.74	peak
5875	89.36	-2.65	86.71	105.2	-18.49	peak
5925	52.91	-2.28	50.63	68.2	-17.57	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)	Detector Type
5850	110.28	-1.97	108.31	122.2	-13.89	peak
5855	93.34	-2.13	91.21	110.8	-19.59	peak
5875	89.63	-2.65	86.98	105.2	-18.22	peak
5925	55.92	-2.28	53.64	68.2	-14.56	peak

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

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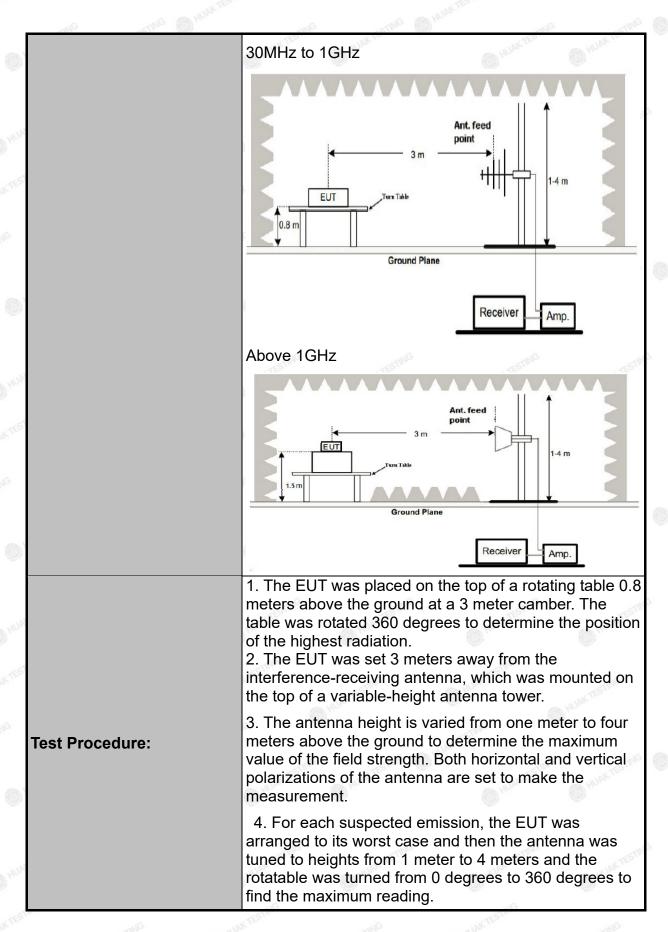
4.7 Spurious Emission

4.7.1.1 Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205							
Test Method:	KDB 789033	D02 v02r0	01	HUAN	HUAL			
Frequency Range:	9kHz to 40G	Hz		STING				
Measurement Distance:	3 m	W TESTING	A HU	AKTE	W TESTING			
Antenna Polarization:	Horizontal &	Vertical		.G	O HUN			
Operation Mode:	Transmitting	mode with	modulat	ion				
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value			
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value			
Limit:	an e.i.r.p. of -2 (2) For transm emissions outs an e.i.r.p. of -2 (3) For transm emissions outs an e.i.r.p. of -2 (4) For transm (i) All emission MHz or more at to 10 dBm/MH from 25 MHz at to a level of 15 edge, and from linearly to a level.	side of the 5. 27 dBm/MHz itters operation is shall be liminated by above or below above or below itters operation is shall be liminated is sh	15-5.35 G . ng in the 5 15-5.35 G . ng in the 5 47-5.725 G . ng in the 5 withe bar above or bow the bar at 5 MHz we or below n/MHz at t w 1GHz a	Hz band s 5.25-5.35 Hz band s 5.47-5.725 GHz band 5.725-5.85 evel of -2 nd edge in below the nd edge in above or w the ban he band 6	GHz band: All shall not exceed GHz band: All shall not exceed GHz band: All shall not exceed GHz band: GHz			
Test Setup:	For radiated		m	RX Ante				

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

Report No.: HK2503111093-E



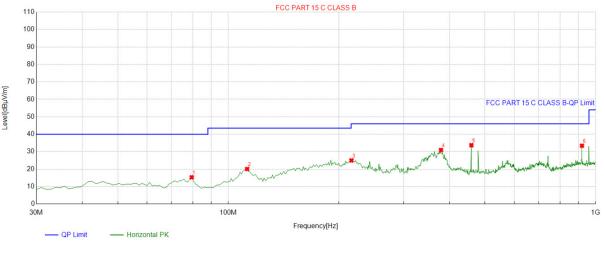
4.7.2 Test Data

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

Report No.: HK2503111093-E

Below 1GHz

Horizontal



QP Detector

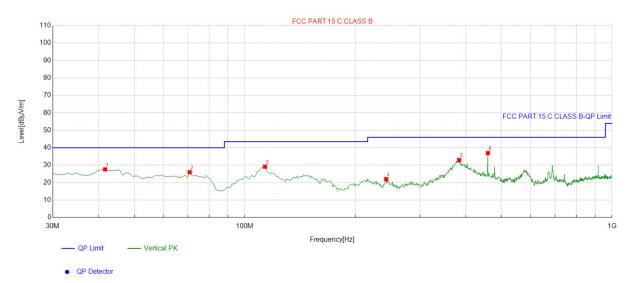
	Suspe	spected List											
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle				
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
	1	79.51952	-18.01	33.35	15.34	40.00	24.66	100	22	Horizontal			
	2	112.53253	-14.72	34.80	20.08	43.50	23.42	100	130	Horizontal			
	3	216.42642	-14.69	39.68	24.99	46.00	21.01	100	133	Horizontal			
	4	379.54955	-9.37	40.34	30.97	46.00	15.03	100	7	Horizontal			
20	5	459.16916	-8.94	42.67	33.73	46.00	12.27	100	358	Horizontal			
	6	918.43843	-1.17	34.59	33.42	46.00	12.58	100	228	Horizontal			

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

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Vertical



Sus	Suspected List											
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle				
NO	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	41.651652	-13.41	41.01	27.60	40.00	12.40	100	66	Vertical			
2	70.780781	-16.89	42.87	25.98	40.00	14.02	100	247	Vertical			
3	113.50350	-15.09	44.19	29.10	43.50	14.40	100	143	Vertical			
4	242.64264	-13.42	35.43	22.01	46.00	23.99	100	54	Vertical			
5	383.43343	-9.11	42.04	32.93	46.00	13.07	100	86	Vertical			
6	459.16916	-8.94	45.92	36.98	46.00	9.02	100	352	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)
HUAR	ular.	HUAR
	ING	TING
WAXTE		WAXTES
TESTING -TESTING	STING TESTING	STOR TESTIN

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

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

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LOW CH 149 (802.11 a Mode with 5.8G)/5745
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)	Detector Type
3368	53.75	-4.59	49.16	68.2	-19.04	peak
11096	49.34	4.21	53.55	74	-20.45	peak
11096	38.07	4.21	42.28	54	-11.72	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data stan Tona
(MHz)	(dBµV)	(dB)	j (dΒμV/m)	(dBµV/m)	(dB)	Detector Type
3368	58.82	-4.59	54.23	68.2	-13.97	peak
11096	54.94	4.21	59.15	74	-14.85	peak
11096	36.28	4.21	40.49	54	-13.51	AVG

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

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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	58.42	-4.59	53.83	68.2	-14.37	peak
10523	51.13	4.21	55.34	68.2	-12.86	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	D. 4 S. JAY TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	57.13	-4.59	52.54	68.2	-15.66	peak
10523	52.52	4.21	56.73	68.2	-11.47	peak

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



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THE TIME

Report No.: HK2503111093-E

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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	57.64	-4.59	53.05	74	-20.95	peak
2705	49.55	-4.59	44.96	54	-9.04	AVG
11717	54.81	4.84	59.65	74	-14.35	peak
11717	36.49	4.84	41.33	54	-12.67	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	59.53	-4.59	54.94	74	-19.06	peak
2705	44.02	-4.59	39.43	54	-14.57	AVG
11717	50.41	4.84	55.25	74	-18.75	peak
11717	38.92	4.84	43.76	54	-10.24	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/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.

Report No.: HK2503111093-E

5.8G 802.11n20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.33	-4.59	56.74	68.2	-11.46	peak
11096	57.42	4.21	61.63	74	-12.37	peak
11096	40.87	4.21	45.08	54	-8.92	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	63.33	-4.59	58.74	68.2	-9.46	peak
11096	55.36	4.21	59.57	74	-14.43	peak
11096	37.57	4.21	41.78	54	-12.22	AVG

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

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MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	62.54	-4.59	57.95	68.2	-10.25	peak
10523	53.12	4.21	57.33	68.2	-10.87	peak

Report No.: HK2503111093-E

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)	Detector Type
3172	56.25	-4.59	51.66	68.2	-16.54	peak
10523	54.33	4.21	58.54	68.2	-9.66	peak

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

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Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	59.72	-4.59	55.13	74	-18.87	peak
2705	48.91	-4.59	44.32	54	-9.68	AVG
11717	56.05	4.84	60.89	74	-13.11	peak
11717	38.77	4.84	43.61	54	· -10.39	AVG

Report No.: HK2503111093-E

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)	Detector Type
2705	60.55	-4.59	55.96	74	-18.04	peak
2705	47.36	-4.59	42.77	54	-11.23	AVG
11717	52.07	4.84	56.91	74	-17.09	peak
11717	37.29	4.84	42.13	54	-11.87	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/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.

Report No.: HK2503111093-E

5.8G 802.11n40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data at SV TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	62.06	-4.59	57.47	68.2	-10.73	peak
11096	61.88	4.21	66.09	74	-7.91	peak
11096	39.17	4.21	43.38	54	-10.62	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3368	63.02	-4.59	58.43	68.2	-9.77	peak
11096	56.15	4.21	60.36	74	-13.64	peak
11096	38.33	4.21	42.54	54	-11.46	AVG

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



Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	58.82	-4.59	54.23	68.2	-13.97	peak
10523	52.54	4.21	56.75	68.2	-11.45	peak

Report No.: HK2503111093-E

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

Vertical:

	and the My			and the VAV		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	57.15	-4.59	52.56	68.2	-15.64	peak
10523	51.36	4.21	55.57	68.2	-12.63	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.





5.8G 802.11ac20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.76	-4.59	57.17	68.2	-11.03	peak
11096	51.93	4.21	56.14	74	-17.86	peak
11096	34.27	4.21	38.48	54	-15.52	AVG

Report No.: HK2503111093-E

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)	Detector Type
3368	61.52	-4.59	56.93	68.2	-11.27	peak
11096	57.07	4.21	61.28	74	-12.72	peak
11096	37.82	4.21	42.03	54	-11.97	AVG

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

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MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	61.56	-4.59	56.97	68.2	-11.23	peak
10523	53.18	4.21	57.39	68.2	-10.81	peak

Report No.: HK2503111093-E

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)	Detector Type
3172	59.22	-4.59	54.63	68.2	-13.57	peak
10523	52.05	4.21	56.26	68.2	-11.94	peak

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

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Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	61.84	-4.59	57.25	74	-16.75	peak
2705	49.58	-4.59	44.99	54	-9.01	AVG
11717	55.07	4.84	59.91	74	-14.09	peak
11717	39.52	4.84	44.36	54	-9.64	AVG

Report No.: HK2503111093-E

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	59.27	-4.59	54.68	74	-19.32	peak
2705	47.82	-4.59	43.23	54	-10.77	AVG
11717	52.61	4.84	57.45	74	-16.55	peak
11717	38.55	4.84	43.39	54	-10.61	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/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.



5.8G 802.11ac40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.56	-4.59	56.97	68.2	-11.23	peak
11096	58.18	4.21	62.39	74	-11.61	peak
11096	36.76	4.21	40.97	54	-13.03	AVG

Report No.: HK2503111093-E

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)	Detector Type
3368	61.92	-4.59	57.33	68.2	-10.87	peak
11096	57.17	4.21	61.38	74	-12.62	peak
11096	39.94	4.21	44.15	54	-9.85	AVG

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

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Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	58.06	-4.59	53.47	68.2	-14.73	peak
10523	52.25	4.21	56.46	68.2	-11.74	peak

Report No.: HK2503111093-E

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data Man Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	57.11	-4.59	52.52	68.2	-15.68	peak
10523	51.32	4.21	55.53	68.2	-12.67	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.



5.8G 802.11ac80 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. CH 155

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	60.03	-4.59	55.44	68.2	-12.76	peak
11096	57.27	4.21	61.48	74	-12.52	peak
11096	36.26	4.21	40.47	54	-13.53	AVG

Report No.: HK2503111093-E

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)	Detector Type
3368	62.18	-4.59	57.59	68.2	-10.61	peak
11096	54.92	4.21	59.13	74	-14.87	peak
11096	37.38	4.21	41.59	54	-12.41	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/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.</p>





5.8G 802.11ax20 Mode
All modes of operation were investigated and the worst-case of MIMO are reported.

Horizontal:

LOW CH 149

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	62.82	-4.59	58.23	68.2	-9.97	peak
11096	50.68	4.21	54.89	74	-19.11	peak
11096	38.84	4.21	43.05	54	-10.95	AVG

Report No.: HK2503111093-E

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)	Detector Type
3368	61.25	-4.59	56.66	68.2	-11.54	peak
11096	56.32	4.21	60.53	74	-13.47	peak
11096	37.08	4.21	41.29	54	-12.71	AVG

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

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MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	62.12	-4.59	57.53	68.2	-10.67	peak
10523	53.27	4.21	57.48	68.2	-10.72	peak

Report No.: HK2503111093-E

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)	Detector Type
3172	58.35	-4.59	53.76	68.2	-14.44	peak
10523	54.94	4.21	59.15	68.2	-9.05	peak

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

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Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	61.17	-4.59	56.58	74	-17.42	peak
2705	48.93	-4.59	44.34	54	-9.66	AVG
11717	55.27	4.84	60.11	74	-13.89	peak
11717	38.08	4.84	42.92	54	-11.08	AVG

Report No.: HK2503111093-E

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)	Detector Type
2705	58.32	-4.59	53.73	74	-20.27	peak
2705	45.67	-4.59	41.08	54	-12.92	AVG
11717	52.78	4.84	57.62	74	-16.38	peak
11717	37.51	4.84	42.35	54	-11.65	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/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.



5.8G 802.11ax40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3368	60.26	-4.59	55.67	68.2	-12.53	peak
11096	59.98	4.21	64.19	74	-9.81	peak
11096	36.22	4.21	40.43	54	·13.57	AVG

Report No.: HK2503111093-E

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)	- Detector Type
3368	63.82	-4.59	59.23	68.2	-8.97	peak
11096	55.37	4.21	59.58	74	-14.42	peak
11096	37.55	4.21	41.76	54	-12.24	AVG

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



Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	62.72	-4.59	58.13	68.2	-10.07	peak
10523	53.07	4.21	57.28	68.2	-10.92	peak

Report No.: HK2503111093-E

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotactor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	59.24	-4.59	54.65	68.2	-13.55	peak
10523	50.92	4.21	55.13	68.2	-13.07	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.



5.8G 802.11ax80 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. CH 155

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	60.02	-4.59	55.43	68.2	-12.77	peak
11096	57.12	4.21	61.33	74	-12.67	peak
11096	37.37	4.21	41.58	54	-12.42	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	62.84	-4.59	58.25	68.2	-9.95	peak
11096	55.96	4.21	60.17	74	-13.83	peak
11096	39.02	4.21	43.23	54	-10.77	AVG

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

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/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.



Report No.: HK2503111093-E

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4.8 Frequency Stability Measurement

4.8.1 Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)					
Test Method:	ANSI C63.10: 2013					
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.					
	Temperature Chamber					
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply					
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 TESTING WHARTESTING WARTESTING WARTESTING					
Remark:	N/A					



Test Result as follows:

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	4.25V	5744.989	-11	5824.972	-28
	5.0V	5745.012	12	5825.021	21
	5.75V	5745.009	9	5824.989	0 -11

Report No.: HK2503111093-E

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
(3	-30	5744.982	-18	5824.989	-11
Munk LES	-20	5744.979	-21	5824.979	-21
	-10	5744.982	-18	5825.023	23
X TESTING	O HUAK	5745.012	12	5825.018	18
5.8G Band	10	5744.978	-22	5825.021	21
	20	5745.021	21	5824.982	-18
	30	5744.966	-34	5825.013	13
	40	5744.982	-18	5825.008	8
	50	5745.021	21	5825.013	13

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4.9 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

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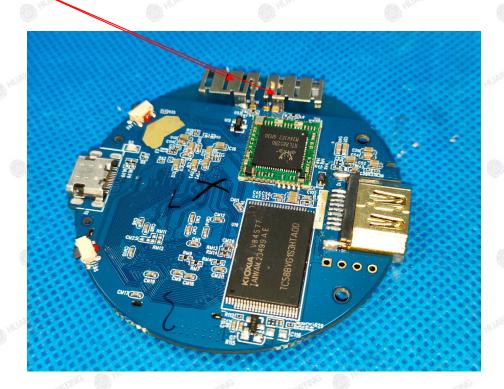
Refer to statement below for compliance.

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 Iron sheet 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: 0.51dBi and Antenna port 2:0.51dBi.

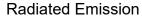
WIFI ANTENNA



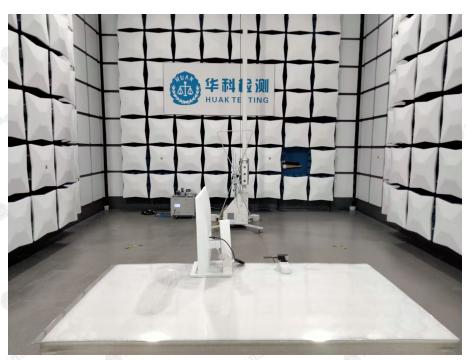
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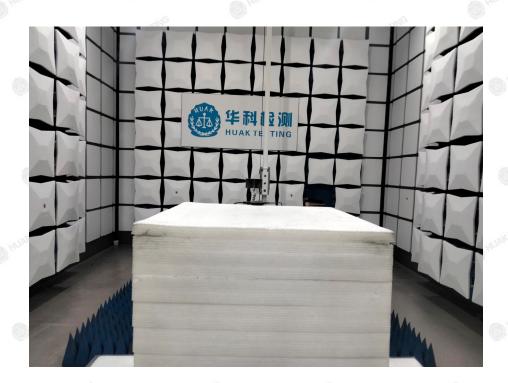


5. Photographs of Test Setup



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6. Photos of the EUT

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

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

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