



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)	
5850	114.28	-1.97	112.31	122.2	-9.89	peak
5855	95.68	-2.13	93.55	110.8	-17.25	peak
5875	9.32	-2.65	6.67	105.2	-98.53	peak
5925	56.32	-2.28	54.04	68.2	-14.16	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.58	-1.97	110.61	122.2	-11.59	peak
5855	93.47	-2.13	91.34	110.8	-19.46	peak
5875	89.16	-2.65	86.51	105.2	-18.69	peak
5925	60.32	-2.28	58.04	68.2	-10.16	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5650	58.64	-2.06	56.58	68.2	-11.62	peak
5700	89.34	-1.96	87.38	105.2	-17.82	peak
5720	94.25	-2.87	91.38	110.8	-19.42	peak
5725	110.25	-2.14	108.11	122.2	-14.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.62	-2.06	56.56	68.2	-11.64	peak
5700	94.26	-1.96	92.3	105.2	-12.9	peak
5720	95.68	-2.87	92.81	110.8	-17.99	peak
5725	111.24	-2.14	109.1	122.2	-13.1	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	109.98	-1.97	108.01	122.2	-14.19	peak
5855	94.35	-2.13	92.22	110.8	-18.58	peak
5875	89.35	-2.65	86.7	105.2	-18.5	peak
5925	52.64	-2.28	50.36	68.2	-17.84	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.62	-1.97	108.65	122.2	-13.55	peak
5855	94.65	-2.13	92.52	110.8	-18.28	peak
5875	90.35	-2.65	87.7	105.2	-17.5	peak
5925	56.87	-2.28	54.59	68.2	-13.61	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**ANT 2**

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

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.38	-2.06	54.32	68.2	-13.88	peak
5700	91.91	-1.96	89.95	105.2	-15.25	peak
5720	94.75	-2.87	91.88	110.8	-18.92	peak
5725	110.25	-2.14	108.11	122.2	-14.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.69	-2.06	56.63	68.2	-11.57	peak
5700	90.34	-1.96	88.38	105.2	-16.82	peak
5720	96.36	-2.87	93.49	110.8	-17.31	peak
5725	108.99	-2.14	106.85	122.2	-15.35	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	108.32	-1.97	106.35	122.2	-15.85	peak
5855	96.35	-2.13	94.22	110.8	-16.58	peak
5875	88.32	-2.65	85.67	105.2	-19.53	peak
5925	56.72	-2.28	54.44	68.2	-13.76	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.62	-1.97	106.65	122.2	-15.55	peak
5855	94.26	-2.13	92.13	110.8	-18.67	peak
5875	88.77	-2.65	86.12	105.2	-19.08	peak
5925	56.42	-2.28	54.14	68.2	-14.06	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11n20 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)	
5650	58.16	-2.06	56.1	68.2	-12.1	peak
5700	90.03	-1.96	88.07	105.2	-17.13	peak
5720	94.58	-2.87	91.71	110.8	-19.09	peak
5725	110.32	-2.14	108.18	122.2	-14.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.65	-2.06	56.59	68.2	-11.61	peak
5700	92.33	-1.96	90.37	105.2	-14.83	peak
5720	95.14	-2.87	92.27	110.8	-18.53	peak
5725	108.65	-2.14	106.51	122.2	-15.69	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	108.49	-1.97	106.52	122.2	-15.68	peak
5855	93.03	-2.13	90.9	110.8	-19.9	peak
5875	89	-2.65	86.35	105.2	-18.85	peak
5925	52.69	-2.28	50.41	68.2	-17.79	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.65	-1.97	105.68	122.2	-16.52	peak
5855	94.62	-2.13	92.49	110.8	-18.31	peak
5875	88.46	-2.65	85.81	105.2	-19.39	peak
5925	58.46	-2.28	56.18	68.2	-12.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5650	52.15	-2.06	50.09	68.2	-18.11	peak
5700	92.32	-1.96	90.36	105.2	-14.84	peak
5720	94.15	-2.87	91.28	110.8	-19.52	peak
5725	108.14	-2.14	106	122.2	-16.2	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.64	-2.06	56.58	68.2	-11.62	peak
5700	95.47	-1.96	93.51	105.2	-11.69	peak
5720	95.25	-2.87	92.38	110.8	-18.42	peak
5725	109.48	-2.14	107.34	122.2	-14.86	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	107.65	-1.97	105.68	122.2	-16.52	peak
5855	94.25	-2.13	92.12	110.8	-18.68	peak
5875	89.34	-2.65	86.69	105.2	-18.51	peak
5925	54.33	-2.28	52.05	68.2	-16.15	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.32	-1.97	106.35	122.2	-15.85	peak
5855	93.65	-2.13	91.52	110.8	-19.28	peak
5875	88.49	-2.65	85.84	105.2	-19.36	peak
5925	52.44	-2.28	50.16	68.2	-18.04	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5650	59.64	-2.06	57.58	68.2	-10.62	peak
5700	90.32	-1.96	88.36	105.2	-16.84	peak
5720	94.15	-2.87	91.28	110.8	-19.52	peak
5725	110.32	-2.14	108.18	122.2	-14.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.79	-2.06	56.73	68.2	-11.47	peak
5700	90.15	-1.96	88.19	105.2	-17.01	peak
5720	96.34	-2.87	93.47	110.8	-17.33	peak
5725	110.49	-2.14	108.35	122.2	-13.85	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	110.79	-1.97	108.82	122.2	-13.38	peak
5855	95.25	-2.13	93.12	110.8	-17.68	peak
5875	90.35	-2.65	87.7	105.2	-17.5	peak
5925	54.98	-2.28	52.7	68.2	-15.5	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.46	-1.97	105.49	122.2	-16.71	peak
5855	96.65	-2.13	94.52	110.8	-16.28	peak
5875	90.33	-2.65	87.68	105.2	-17.52	peak
5925	54.28	-2.28	52	68.2	-16.2	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac40 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)	
5650	56.37	-2.06	54.31	68.2	-13.89	peak
5700	88.16	-1.96	86.2	105.2	-19	peak
5720	96.3	-2.87	93.43	110.8	-17.37	peak
5725	107.15	-2.14	105.01	122.2	-17.19	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.16	-2.06	56.1	68.2	-12.1	peak
5700	92.45	-1.96	90.49	105.2	-14.71	peak
5720	95.22	-2.87	92.35	110.8	-18.45	peak
5725	110.42	-2.14	108.28	122.2	-13.92	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	108.64	-1.97	106.67	122.2	-15.53	peak
5855	94.25	-2.13	92.12	110.8	-18.68	peak
5875	88.65	-2.65	86	105.2	-19.2	peak
5925	54.17	-2.28	51.89	68.2	-16.31	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.32	-1.97	110.35	122.2	-11.85	peak
5855	93.65	-2.13	91.52	110.8	-19.28	peak
5875	88.49	-2.65	85.84	105.2	-19.36	peak
5925	56.62	-2.28	54.34	68.2	-13.86	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac80 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)	
5650	54.15	-2.06	52.09	68.2	-16.11	peak
5700	89.31	-1.96	87.35	105.2	-17.85	peak
5720	94.12	-2.87	91.25	110.8	-19.55	peak
5725	110.32	-2.14	108.18	122.2	-14.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.32	-2.06	57.26	68.2	-10.94	peak
5700	91.24	-1.96	89.28	105.2	-15.92	peak
5720	95.33	-2.87	92.46	110.8	-18.34	peak
5725	110.35	-2.14	108.21	122.2	-13.99	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	109.68	-1.97	107.71	122.2	-14.49	peak
5855	94.65	-2.13	92.52	110.8	-18.28	peak
5875	94.94	-2.65	92.29	105.2	-12.91	peak
5925	52.66	-2.28	50.38	68.2	-17.82	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.67	-1.97	106.7	122.2	-15.5	peak
5855	93.25	-2.13	91.12	110.8	-19.68	peak
5875	89.65	-2.65	87	105.2	-18.2	peak
5925	54.71	-2.28	52.43	68.2	-15.77	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax20 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)	
5650	59.37	-2.06	57.31	68.2	-10.89	peak
5700	90.46	-1.96	88.5	105.2	-16.7	peak
5720	94.25	-2.87	91.38	110.8	-19.42	peak
5725	111.25	-2.14	109.11	122.2	-13.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.64	-2.06	57.58	68.2	-10.62	peak
5700	91.64	-1.96	89.68	105.2	-15.52	peak
5720	95.35	-2.87	92.48	110.8	-18.32	peak
5725	111.49	-2.14	109.35	122.2	-12.85	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	110.95	-1.97	108.98	122.2	-13.22	peak
5855	93.54	-2.13	91.41	110.8	-19.39	peak
5875	90.56	-2.65	87.91	105.2	-17.29	peak
5925	54.27	-2.28	51.99	68.2	-16.21	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.92	-1.97	105.95	122.2	-16.25	peak
5855	96.35	-2.13	94.22	110.8	-16.58	peak
5875	91.62	-2.65	88.97	105.2	-16.23	peak
5925	56.38	-2.28	54.1	68.2	-14.1	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5650	56.37	-2.06	54.31	68.2	-13.89	peak
5700	88.92	-1.96	86.96	105.2	-18.24	peak
5720	96.34	-2.87	93.47	110.8	-17.33	peak
5725	107.49	-2.14	105.35	122.2	-16.85	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.46	-2.06	56.4	68.2	-11.8	peak
5700	92.34	-1.96	90.38	105.2	-14.82	peak
5720	95.19	-2.87	92.32	110.8	-18.48	peak
5725	110.25	-2.14	108.11	122.2	-14.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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)	
5850	108.64	-1.97	106.67	122.2	-15.53	peak
5855	94.25	-2.13	92.12	110.8	-18.68	peak
5875	88.65	-2.65	86	105.2	-19.2	peak
5925	54.19	-2.28	51.91	68.2	-16.29	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.62	-1.97	110.65	122.2	-11.55	peak
5855	93.65	-2.13	91.52	110.8	-19.28	peak
5875	88.49	-2.65	85.84	105.2	-19.36	peak
5925	56.37	-2.28	54.09	68.2	-14.11	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5650	54.32	-2.06	52.26	68.2	-15.94	peak
5700	89.37	-1.96	87.41	105.2	-17.79	peak
5720	94.33	-2.87	91.46	110.8	-19.34	peak
5725	110.25	-2.14	108.11	122.2	-14.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.37	-2.06	57.31	68.2	-10.89	peak
5700	91.22	-1.96	89.26	105.2	-15.94	peak
5720	95.34	-2.87	92.47	110.8	-18.33	peak
5725	111.49	-2.14	109.35	122.2	-12.85	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	109.48	-1.97	107.51	122.2	-14.69	peak
5855	95.32	-2.13	93.19	110.8	-17.61	peak
5875	94.62	-2.65	91.97	105.2	-13.23	peak
5925	52.25	-2.28	49.97	68.2	-18.23	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.65	-1.97	107.68	122.2	-14.52	peak
5855	93.45	-2.13	91.32	110.8	-19.48	peak
5875	89.34	-2.65	86.69	105.2	-18.51	peak
5925	54.19	-2.28	51.91	68.2	-16.29	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**MIMO**

Operation Mode: 802.11n20 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)	
5650	57.92	-2.06	55.86	68.2	-12.34	peak
5700	91.25	-1.96	89.29	105.2	-15.91	peak
5720	96.5	-2.87	93.63	110.8	-17.17	peak
5725	112.46	-2.14	110.32	122.2	-11.88	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	62.38	-2.06	60.32	68.2	-7.88	peak
5700	96.35	-1.96	94.39	105.2	-10.81	peak
5720	99.15	-2.87	96.28	110.8	-14.52	peak
5725	112.35	-2.14	110.21	122.2	-11.99	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	110.65	-1.97	108.68	122.2	-13.52	peak
5855	95.64	-2.13	93.51	110.8	-17.29	peak
5875	89.35	-2.65	86.7	105.2	-18.5	peak
5925	54.16	-2.28	51.88	68.2	-16.32	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.25	-1.97	105.28	122.2	-16.92	peak
5855	94.35	-2.13	92.22	110.8	-18.58	peak
5875	88.21	-2.65	85.56	105.2	-19.64	peak
5925	57.65	-2.28	55.37	68.2	-12.83	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HK2105101409-3E

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)	
5650	57.76	-2.06	55.7	68.2	-12.5	peak
5700	93.34	-1.96	91.38	105.2	-13.82	peak
5720	96.15	-2.87	93.28	110.8	-17.52	peak
5725	110.49	-2.14	108.35	122.2	-13.85	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.37	-2.06	57.31	68.2	-10.89	peak
5700	96.45	-1.96	94.49	105.2	-10.71	peak
5720	95.35	-2.87	92.48	110.8	-18.32	peak
5725	110.33	-2.14	108.19	122.2	-14.01	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	106.72	-1.97	104.75	122.2	-17.45	peak
5855	93.46	-2.13	91.33	110.8	-19.47	peak
5875	88.32	-2.65	85.67	105.2	-19.53	peak
5925	54.72	-2.28	52.44	68.2	-15.76	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.34	-1.97	105.37	122.2	-16.83	peak
5855	95.25	-2.13	93.12	110.8	-17.68	peak
5875	88.31	-2.65	85.66	105.2	-19.54	peak
5925	54.09	-2.28	51.81	68.2	-16.39	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5650	57.93	-2.06	55.87	68.2	-12.33	peak
5700	88.64	-1.96	86.68	105.2	-18.52	peak
5720	96.25	-2.87	93.38	110.8	-17.42	peak
5725	110.79	-2.14	108.65	122.2	-13.55	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.02	-2.06	56.96	68.2	-11.24	peak
5700	91.67	-1.96	89.71	105.2	-15.49	peak
5720	95.22	-2.87	92.35	110.8	-18.45	peak
5725	110.64	-2.14	108.5	122.2	-13.7	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	110.49	-1.97	108.52	122.2	-13.68	peak
5855	95.37	-2.13	93.24	110.8	-17.56	peak
5875	89.46	-2.65	86.81	105.2	-18.39	peak
5925	54.28	-2.28	52	68.2	-16.2	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.65	-1.97	108.68	122.2	-13.52	peak
5855	96.35	-2.13	94.22	110.8	-16.58	peak
5875	89.98	-2.65	87.33	105.2	-17.87	peak
5925	56.11	-2.28	53.83	68.2	-14.37	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

Operation Mode: 802.11ac40 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)	
5650	58.15	-2.06	56.09	68.2	-12.11	peak
5700	88.36	-1.96	86.4	105.2	-18.8	peak
5720	94.25	-2.87	91.38	110.8	-19.42	peak
5725	110.75	-2.14	108.61	122.2	-13.59	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.37	-2.06	57.31	68.2	-10.89	peak
5700	89.3	-1.96	87.34	105.2	-17.86	peak
5720	94.45	-2.87	91.58	110.8	-19.22	peak
5725	112.35	-2.14	110.21	122.2	-11.99	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	112.64	-1.97	110.67	122.2	-11.53	peak
5855	94.35	-2.13	92.22	110.8	-18.58	peak
5875	88.72	-2.65	86.07	105.2	-19.13	peak
5925	54.54	-2.28	52.26	68.2	-15.94	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.35	-1.97	110.38	122.2	-11.82	peak
5855	93.66	-2.13	91.53	110.8	-19.27	peak
5875	89.67	-2.65	87.02	105.2	-18.18	peak
5925	60.33	-2.28	58.05	68.2	-10.15	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

Operation Mode: 802.11ac80 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)	
5650	57.16	-2.06	55.1	68.2	-13.1	peak
5700	89.34	-1.96	87.38	105.2	-17.82	peak
5720	96.35	-2.87	93.48	110.8	-17.32	peak
5725	110.25	-2.14	108.11	122.2	-14.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.49	-2.06	55.43	68.2	-12.77	peak
5700	93.36	-1.96	91.4	105.2	-13.8	peak
5720	94.25	-2.87	91.38	110.8	-19.42	peak
5725	111.03	-2.14	108.89	122.2	-13.31	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	110.25	-1.97	108.28	122.2	-13.92	peak
5855	94.35	-2.13	92.22	110.8	-18.58	peak
5875	89.67	-2.65	87.02	105.2	-18.18	peak
5925	52.01	-2.28	49.73	68.2	-18.47	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.35	-1.97	108.38	122.2	-13.82	peak
5855	94.35	-2.13	92.22	110.8	-18.58	peak
5875	89.37	-2.65	86.72	105.2	-18.48	peak
5925	56.19	-2.28	53.91	68.2	-14.29	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

Operation Mode: 802.11ax20 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)	
5650	58.65	-2.06	56.59	68.2	-11.61	peak
5700	89.46	-1.96	87.5	105.2	-17.7	peak
5720	96.34	-2.87	93.47	110.8	-17.33	peak
5725	110.78	-2.14	108.64	122.2	-13.56	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.64	-2.06	57.58	68.2	-10.62	peak
5700	91.95	-1.96	89.99	105.2	-15.21	peak
5720	95.35	-2.87	92.48	110.8	-18.32	peak
5725	110.44	-2.14	108.3	122.2	-13.9	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	110.62	-1.97	108.65	122.2	-13.55	peak
5855	95.38	-2.13	93.25	110.8	-17.55	peak
5875	89.44	-2.65	86.79	105.2	-18.41	peak
5925	54.72	-2.28	52.44	68.2	-15.76	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.28	-1.97	108.31	122.2	-13.89	peak
5855	96.35	-2.13	94.22	110.8	-16.58	peak
5875	89.14	-2.65	86.49	105.2	-18.71	peak
5925	56.22	-2.28	53.94	68.2	-14.26	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5650	58.19	-2.06	56.13	68.2	-12.07	peak
5700	88.32	-1.96	86.36	105.2	-18.84	peak
5720	96.58	-2.87	93.71	110.8	-17.09	peak
5725	110.25	-2.14	108.11	122.2	-14.09	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.37	-2.06	57.31	68.2	-10.89	peak
5700	90.35	-1.96	88.39	105.2	-16.81	peak
5720	94.22	-2.87	91.35	110.8	-19.45	peak
5725	112.02	-2.14	109.88	122.2	-12.32	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	112.32	-1.97	110.35	122.2	-11.85	peak
5855	94.35	-2.13	92.22	110.8	-18.58	peak
5875	88.32	-2.65	85.67	105.2	-19.53	peak
5925	54.26	-2.28	51.98	68.2	-16.22	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.62	-1.97	110.65	122.2	-11.55	peak
5855	94.38	-2.13	92.25	110.8	-18.55	peak
5875	92.32	-2.65	89.67	105.2	-15.53	peak
5925	60.41	-2.28	58.13	68.2	-10.07	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5650	59.64	-2.06	57.58	68.2	-10.62	peak
5700	89.32	-1.96	87.36	105.2	-17.84	peak
5720	96.47	-2.87	93.6	110.8	-17.2	peak
5725	110.66	-2.14	108.52	122.2	-13.68	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.92	-2.06	55.86	68.2	-12.34	peak
5700	94.35	-1.96	92.39	105.2	-12.81	peak
5720	95.62	-2.87	92.75	110.8	-18.05	peak
5725	111.32	-2.14	109.18	122.2	-13.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
5850	111.25	-1.97	109.28	122.2	-12.92	peak
5855	95.65	-2.13	93.52	110.8	-17.28	peak
5875	89.4	-2.65	86.75	105.2	-18.45	peak
5925	52.47	-2.28	50.19	68.2	-18.01	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

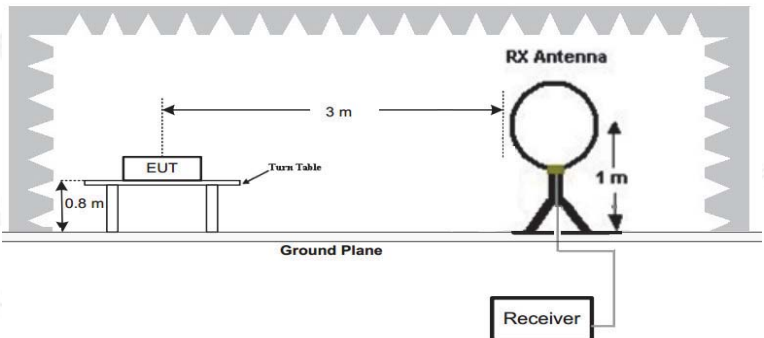
Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.02	-1.97	109.05	122.2	-13.15	peak
5855	95.67	-2.13	93.54	110.8	-17.26	peak
5875	89.62	-2.65	86.97	105.2	-18.23	peak
5925	57.14	-2.28	54.86	68.2	-13.34	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



4.7. Spurious Emission

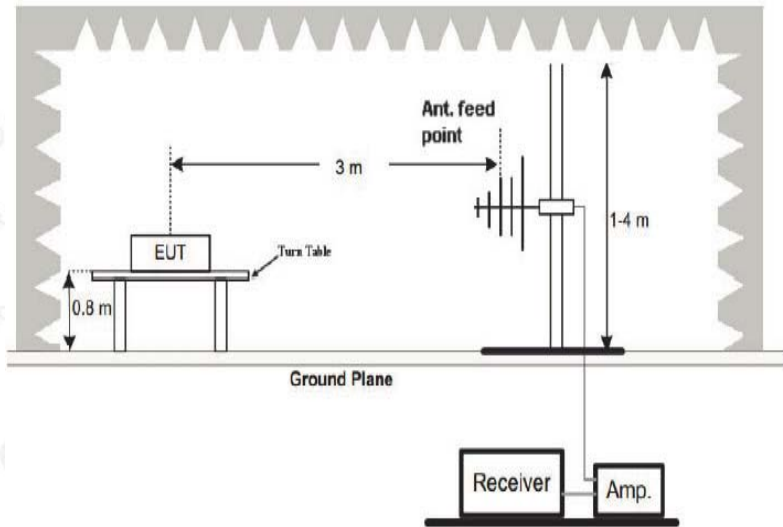
4.7.1.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) 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 comply 15.209.				
Test setup:	For radiated emissions below 30MHz 				

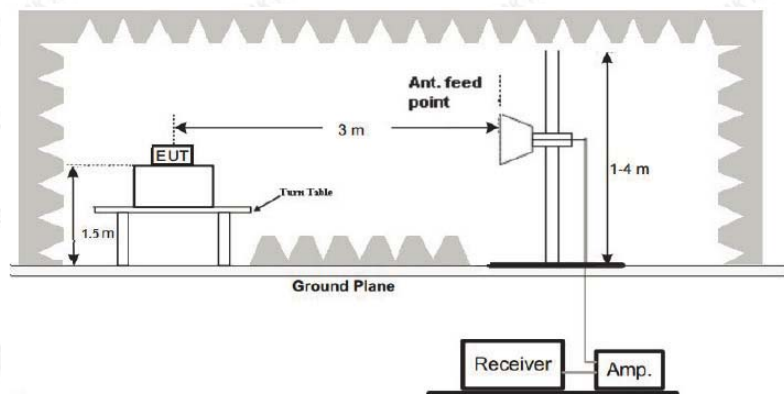
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



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 center. 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 rotating 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 limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS



HK2105101409-3E

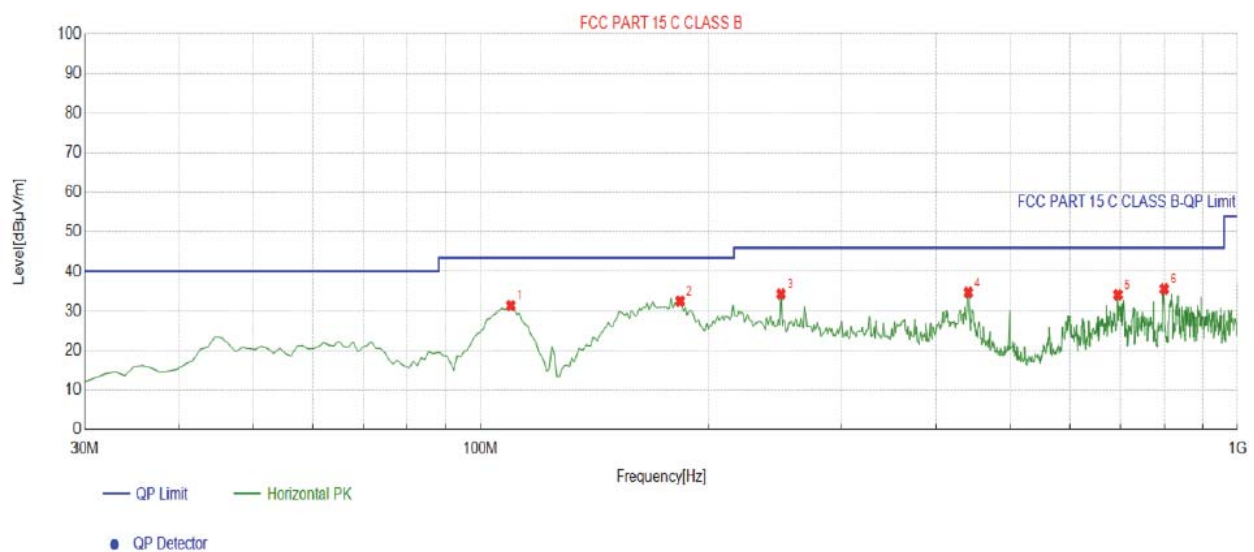
4.7.2. Test Data

Adapter 1:**test mode: TX 802.11a 5745MHz**

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

Below 1GHz

Horizontal



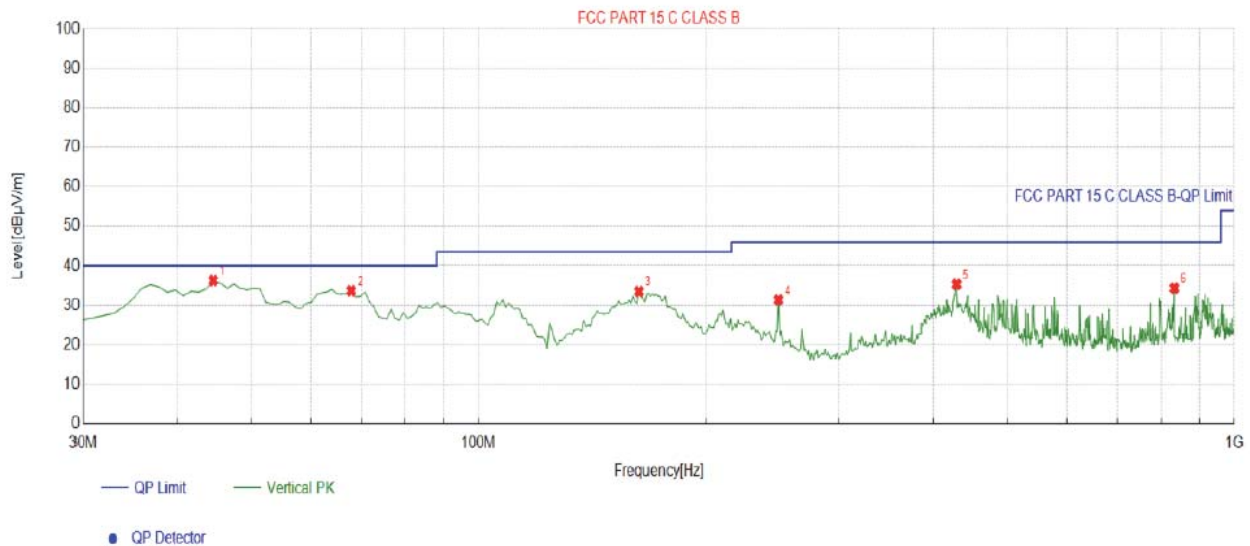
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.6196	-15.43	46.84	31.41	43.50	12.09	100	153	Horizontal
2	183.4134	-16.57	49.12	32.55	43.50	10.95	100	296	Horizontal
3	249.4394	-13.42	47.78	34.36	46.00	11.64	100	343	Horizontal
4	440.7207	-9.39	44.10	34.71	46.00	11.29	100	78	Horizontal
5	695.1151	-5.13	39.29	34.16	46.00	11.84	100	280	Horizontal
6	799.9800	-3.12	38.74	35.62	46.00	10.38	100	4	Horizontal

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



HK2105101409-3E

Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5646	-13.73	49.98	36.25	40.00	3.75	100	56	Vertical
2	67.8679	-17.13	50.80	33.67	40.00	6.33	100	218	Vertical
3	163.0230	-17.94	51.45	33.51	43.50	9.99	100	262	Vertical
4	249.4394	-13.42	44.78	31.36	46.00	14.64	100	179	Vertical
5	429.0691	-9.87	45.16	35.29	46.00	10.71	100	1	Vertical
6	832.9930	-2.47	36.81	34.34	46.00	11.66	100	290	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

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

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



HK2105101409-3E

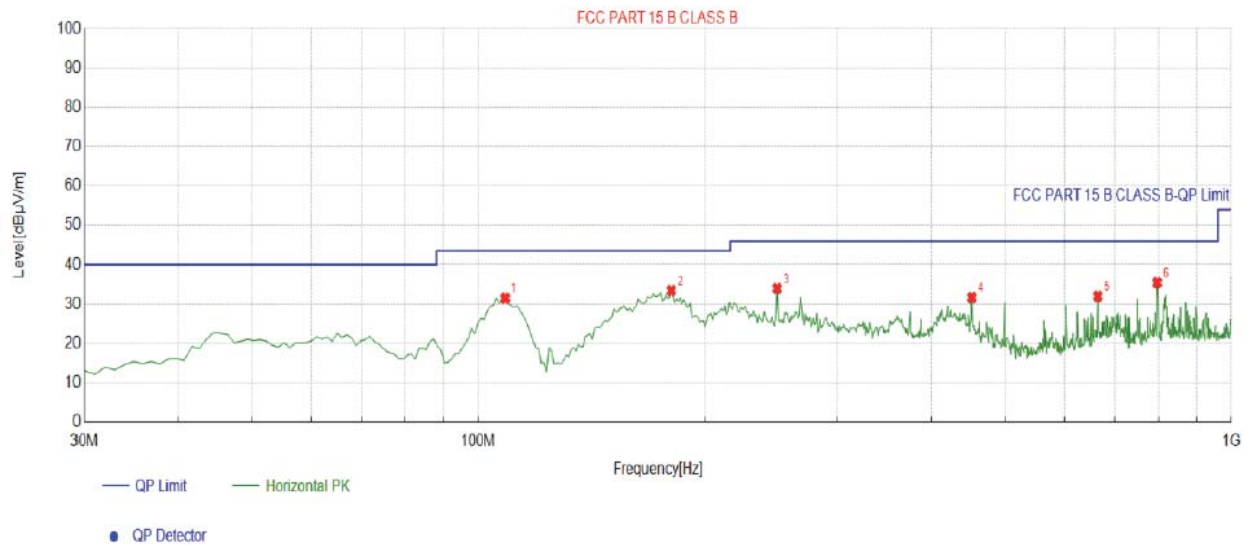
Adapter 2:

test mode: TX 802.11a 5745MHz

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

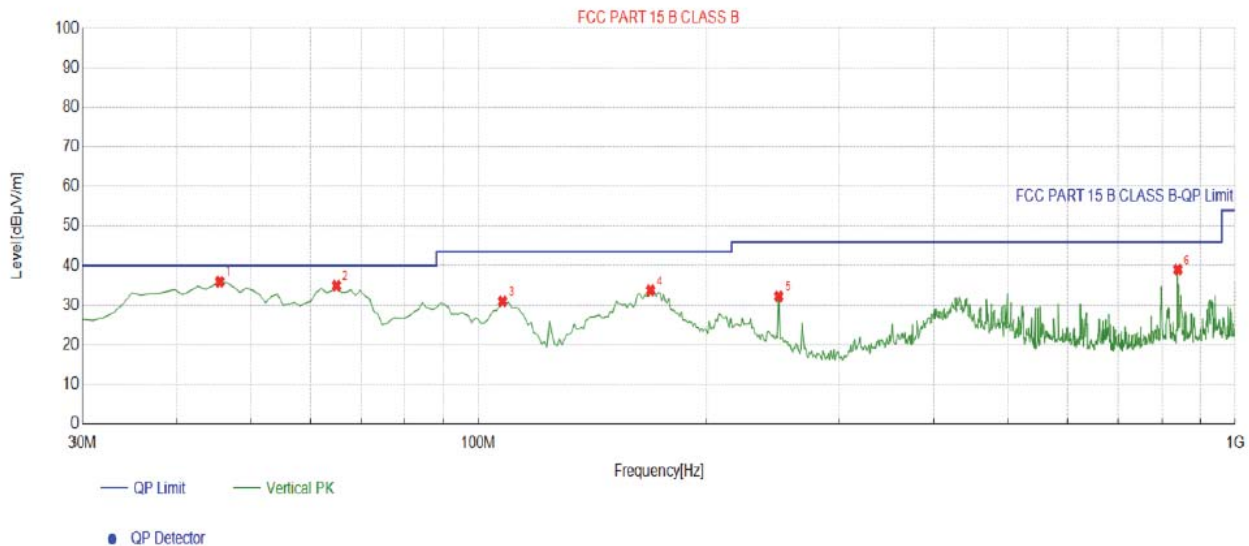
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.6486	-15.43	46.92	31.49	43.50	12.01	100	310	Horizontal
2	180.5005	-16.81	50.28	33.47	43.50	10.03	100	291	Horizontal
3	249.4394	-13.42	47.36	33.94	46.00	12.06	100	152	Horizontal
4	452.3724	-8.91	40.57	31.66	46.00	14.34	100	110	Horizontal
5	665.0150	-4.87	36.86	31.99	46.00	14.01	100	263	Horizontal
6	797.0671	-3.16	38.59	35.43	46.00	10.57	100	9	Horizontal

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



HK2105101409-3E

Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.5355	-13.65	49.61	35.96	40.00	4.04	100	143	Vertical
2	64.9550	-16.40	51.33	34.93	40.00	5.07	100	286	Vertical
3	107.6777	-15.42	46.41	30.99	43.50	12.51	100	3	Vertical
4	168.8488	-17.41	51.15	33.74	43.50	9.76	100	249	Vertical
5	249.4394	-13.42	45.69	32.27	46.00	13.73	100	2	Vertical
6	839.7898	-2.55	41.53	38.98	46.00	7.02	100	1	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

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

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

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

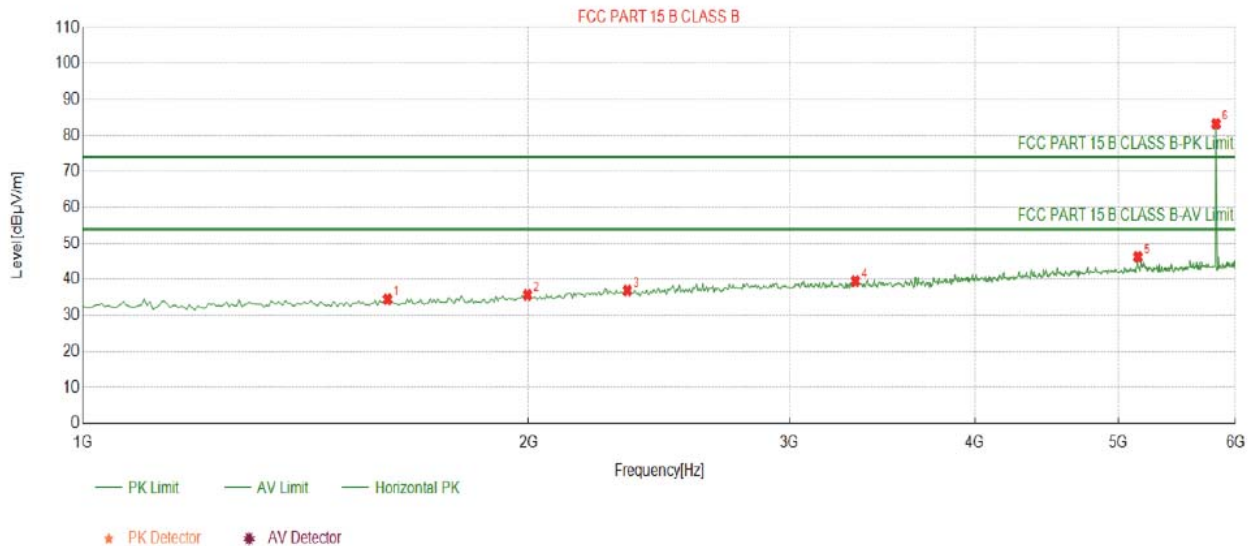


Above 1GHz

RADIATED EMISSION TEST

Adapter 1:

All the test modes completed for test. Only the worst result of was reported as below:

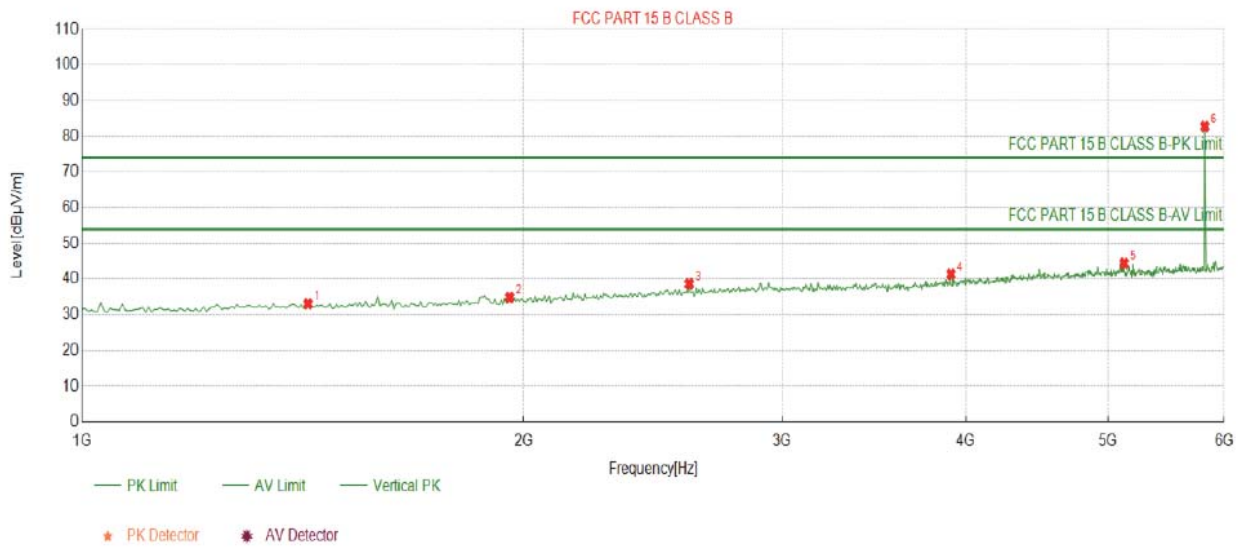


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1605.6056	-20.42	54.93	34.51	74.00	39.49	150	347	Horizontal
2	1995.9960	-18.63	54.33	35.70	74.00	38.30	150	359	Horizontal
3	2331.3313	-17.22	54.20	36.98	74.00	37.02	150	55	Horizontal
4	3322.3223	-14.72	54.31	39.59	74.00	34.41	150	276	Horizontal
5	5154.1542	-10.47	56.71	46.24	74.00	27.76	150	150	Horizontal
6	5819.8198	-9.29	92.46	83.17	74.00	-9.17	150	308	Horizontal

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



HK2105101409-3E



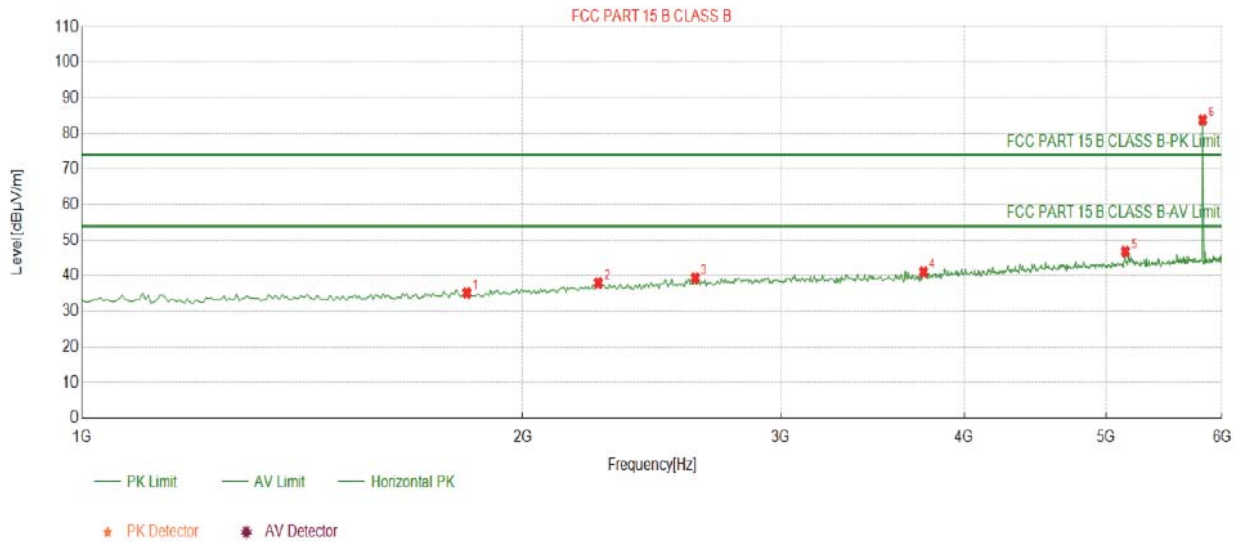
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1425.4254	-20.51	53.58	33.07	74.00	40.93	150	254	Vertical
2	1955.9560	-18.94	53.83	34.89	74.00	39.11	150	44	Vertical
3	2591.5916	-16.35	55.02	38.67	74.00	35.33	150	124	Vertical
4	3907.9079	-13.55	54.91	41.36	74.00	32.64	150	33	Vertical
5	5129.1291	-10.52	54.90	44.38	74.00	29.62	150	314	Vertical
6	5819.8198	-9.29	91.96	82.67	74.00	-8.67	150	29	Vertical

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



HK2105101409-3E

Adapter 2:

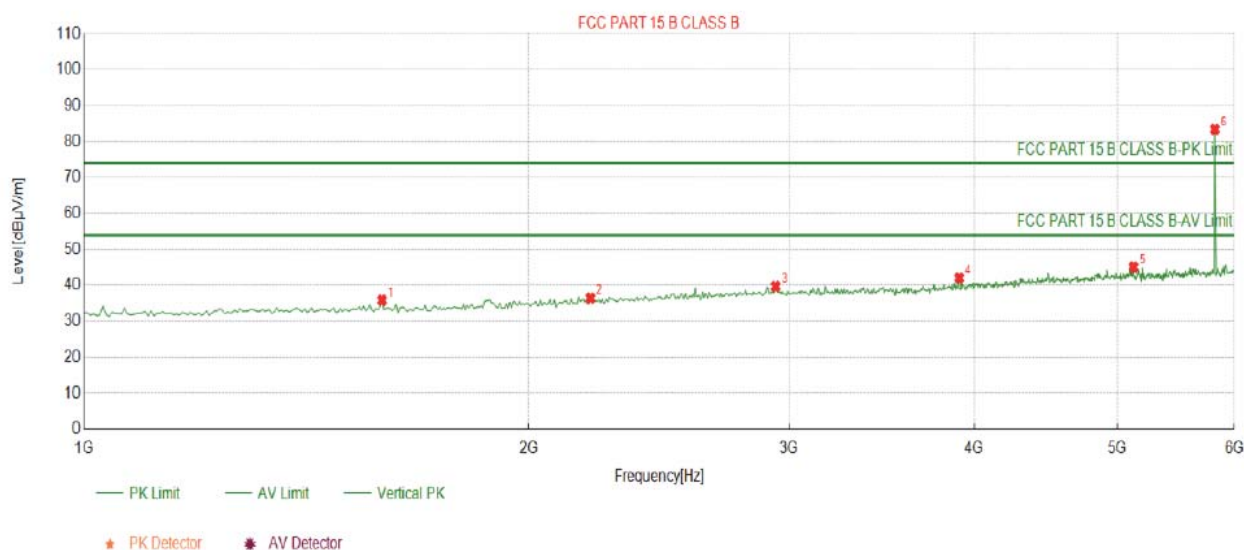
All the test modes completed for test. Only the worst result of was reported as below:

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1830.8308	-19.70	54.96	35.26	74.00	38.74	150	59	Horizontal
2	2251.2513	-17.58	55.64	38.06	74.00	35.94	150	185	Horizontal
3	2621.6216	-16.28	55.72	39.44	74.00	34.56	150	67	Horizontal
4	3752.7528	-14.06	55.17	41.11	74.00	32.89	150	256	Horizontal
5	5154.1542	-10.47	57.31	46.84	74.00	27.16	150	150	Horizontal
6	5819.8198	-9.29	93.06	83.77	74.00	-9.77	150	308	Horizontal

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



HK2105101409-3E



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1590.5906	-20.44	56.33	35.89	74.00	38.11	150	29	Vertical
2	2201.2012	-17.83	54.32	36.49	74.00	37.51	150	29	Vertical
3	2936.9369	-15.31	55.04	39.73	74.00	34.27	150	270	Vertical
4	3907.9079	-13.55	55.61	42.06	74.00	31.94	150	33	Vertical
5	5129.1291	-10.52	55.60	45.08	74.00	28.92	150	314	Vertical
6	5819.8198	-9.29	92.66	83.37	74.00	-9.37	150	29	Vertical

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



HK2105101409-3E

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

All modes of operation were investigated and the worst-case of Ant 1 are reported.

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.25	-4.59	50.66	68.2	-17.54	peak
11096	50.32	4.21	54.53	74	-19.47	peak
11096	39.45	4.21	43.66	54	-10.34	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	59.64	-4.59	55.05	68.2	-13.15	peak
11096	55.32	4.21	59.53	74	-14.47	peak
11096	37.19	4.21	41.4	54	-12.6	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
3172	58.97	-4.59	54.38	68.2	-13.82	peak
10523	52.69	4.21	56.9	68.2	-11.3	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	57.16	-4.59	52.57	68.2	-15.63	peak
10523	53.26	4.21	57.47	68.2	-10.73	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HK2105101409-3E

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)	
2705	59.34	-4.59	54.75	74	-19.25	peak
2705	49.35	-4.59	44.76	54	-9.24	AVG
11717	54.22	4.84	59.06	74	-14.94	peak
11717	37.64	4.84	42.48	54	-11.52	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.32	-4.59	54.73	74	-19.27	peak
2705	45.32	-4.59	40.73	54	-13.27	AVG
11717	51.24	4.84	56.08	74	-17.92	peak
11717	39.65	4.84	44.49	54	-9.51	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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.



HK2105101409-3E

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	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	57.19	4.21	61.4	74	-12.6	peak
11096	40.25	4.21	44.46	54	-9.54	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	63.25	-4.59	58.66	68.2	-9.54	peak
11096	56.98	4.21	61.19	74	-12.81	peak
11096	37.18	4.21	41.39	54	-12.61	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	64.25	-4.59	59.66	68.2	-8.54	peak
10523	54.21	4.21	58.42	68.2	-9.78	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.67	-4.59	55.08	68.2	-13.12	peak
10523	55.32	4.21	59.53	68.2	-8.67	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HK2105101409-3E

HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.19	-4.59	55.6	74	-18.4	peak
2705	49.25	-4.59	44.66	54	-9.34	AVG
11717	56.87	4.84	61.71	74	-12.29	peak
11717	39.3	4.84	44.14	54	-9.86	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.35	-4.59	55.76	74	-18.24	peak
2705	49.25	-4.59	44.66	54	-9.34	AVG
11717	53.66	4.84	58.5	74	-15.5	peak
11717	38.19	4.84	43.03	54	-10.97	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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.



HK2105101409-3E

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	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	64.28	-4.59	59.69	68.2	-8.51	peak
11096	61.24	4.21	65.45	74	-8.55	peak
11096	39.47	4.21	43.68	54	-10.32	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	63.28	-4.59	58.69	68.2	-9.51	peak
11096	57.19	4.21	61.4	74	-12.6	peak
11096	38.22	4.21	42.43	54	-11.57	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	64.25	-4.59	59.66	68.2	-8.54	peak
10523	54.19	4.21	58.4	68.2	-9.8	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	58.19	-4.59	53.6	68.2	-14.6	peak
10523	54.26	4.21	58.47	68.2	-9.73	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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.



HK2105101409-3E

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	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.02	-4.59	56.43	68.2	-11.77	peak
11096	52.34	4.21	56.55	74	-17.45	peak
11096	38.92	4.21	43.13	54	-10.87	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	57.48	4.21	61.69	74	-12.31	peak
11096	38.94	4.21	43.15	54	-10.85	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	63.25	-4.59	58.66	68.2	-9.54	peak
10523	54.15	4.21	58.36	68.2	-9.84	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.35	-4.59	54.76	68.2	-13.44	peak
10523	54.16	4.21	58.37	68.2	-9.83	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HK2105101409-3E

HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	61.25	-4.59	56.66	74	-17.34	peak
2705	50.16	-4.59	45.57	54	-8.43	AVG
11717	56.38	4.84	61.22	74	-12.78	peak
11717	39.47	4.84	44.31	54	-9.69	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.34	-4.59	54.75	74	-19.25	peak
2705	47.19	-4.59	42.6	54	-11.4	AVG
11717	53.16	4.84	58	74	-16	peak
11717	37.49	4.84	42.33	54	-11.67	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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.



HK2105101409-3E

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	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	59.11	4.21	63.32	74	-10.68	peak
11096	38.47	4.21	42.68	54	-11.32	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	64.38	-4.59	59.79	68.2	-8.41	peak
11096	57.49	4.21	61.7	74	-12.3	peak
11096	39.41	4.21	43.62	54	-10.38	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

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)	
3368	60.35	-4.59	55.76	68.2	-12.44	peak
11096	56.24	4.21	60.45	74	-13.55	peak
11096	38.41	4.21	42.62	54	-11.38	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.15	-4.59	57.56	68.2	-10.64	peak
11096	56.72	4.21	60.93	74	-13.07	peak
11096	39.58	4.21	43.79	54	-10.21	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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.



HK2105101409-3E

5.8G 802.11ax20 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	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.22	-4.59	57.63	68.2	-10.57	peak
11096	52.38	4.21	56.59	74	-17.41	peak
11096	38.98	4.21	43.19	54	-10.81	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	57.48	4.21	61.69	74	-12.31	peak
11096	38.19	4.21	42.4	54	-11.6	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	63.25	-4.59	58.66	68.2	-9.54	peak
10523	54.25	4.21	58.46	68.2	-9.74	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.68	-4.59	55.09	68.2	-13.11	peak
10523	54.22	4.21	58.43	68.2	-9.77	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HK2105101409-3E

HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	61.58	-4.59	56.99	74	-17.01	peak
2705	50.24	-4.59	45.65	54	-8.35	AVG
11717	56.89	4.84	61.73	74	-12.27	peak
11717	39.47	4.84	44.31	54	-9.69	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.81	-4.59	55.22	74	-18.78	peak
2705	47.82	-4.59	43.23	54	-10.77	AVG
11717	53.26	4.84	58.1	74	-15.9	peak
11717	37.42	4.84	42.26	54	-11.74	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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.



HK2105101409-3E

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	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	59.44	4.21	63.65	74	-10.35	peak
11096	38.12	4.21	42.33	54	-11.67	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	64.35	-4.59	59.76	68.2	-8.44	peak
11096	57.19	4.21	61.4	74	-12.6	peak
11096	39.22	4.21	43.43	54	-10.57	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HK2105101409-3E

MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	63.15	-4.59	58.56	68.2	-9.64	peak
10523	54.19	4.21	58.4	68.2	-9.8	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3172	60.25	-4.59	55.66	68.2	-12.54	peak
10523	52.25	4.21	56.46	68.2	-11.74	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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.



HK2105101409-3E

MID CH159

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	63.58	-4.59	58.99	68.2	-9.21	
10523	54.12	4.21	58.33	68.2	-9.87	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3172	60.25	-4.59	55.66	68.2	-12.54	
10523	52.49	4.21	56.7	68.2	-11.5	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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.



HK2105101409-3E

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)	
3368	60.58	-4.59	55.99	68.2	-12.21	peak
11096	56.32	4.21	60.53	74	-13.47	peak
11096	38.44	4.21	42.65	54	-11.35	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	56.89	4.21	61.1	74	-12.9	peak
11096	39.47	4.21	43.68	54	-10.32	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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:	<pre>graph LR; SA[Spectrum Analyzer] --- EUT[EUT]; EUT --- P[AC/DC Power supply]; EUT --- TC[Temperature Chamber]; P --- TC;</pre>
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



HK2105101409-3E

Test Result as follows:

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	10.8V	5744.987	-13	5825.007	7
	12.0V	5745.029	29	5824.957	-43
	13.2V	5744.971	-29	5824.960	-40

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	-30	5744.980	-20	5825.050	50
	-20	5745.014	14	5825.043	43
	-10	5744.956	-44	5824.999	-1
	0	5744.978	-22	5824.969	-31
	10	5744.957	-43	5825.018	18
	20	5745.012	12	5824.990	-10
	30	5744.973	-27	5824.985	-15
	40	5744.994	-6	5824.997	-3
	50	5744.953	-47	5825.042	42



4.9. ANTENNA REQUIREMENT

Standard Applicable

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

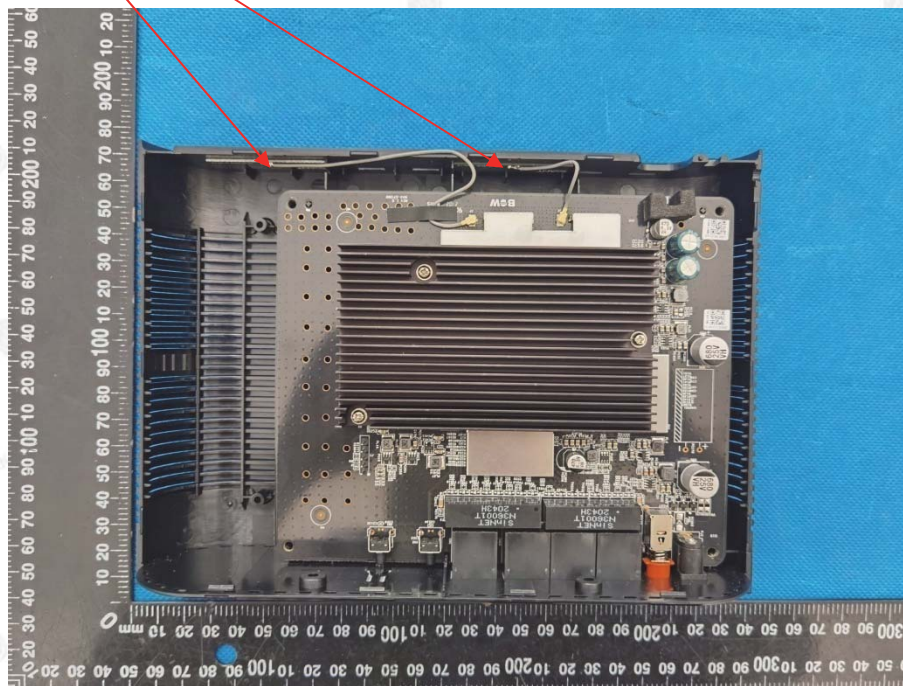
Refer to statement below for compliance.

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

Antenna Connected Construction

The antenna used in this product is a Internal Antenna which professional installation is required and cannot be dismantled easily, and the best case gain of the antenna is Antenna port 1:4.5dBi and Antenna port 2:4.5dBi.

ANTENNA

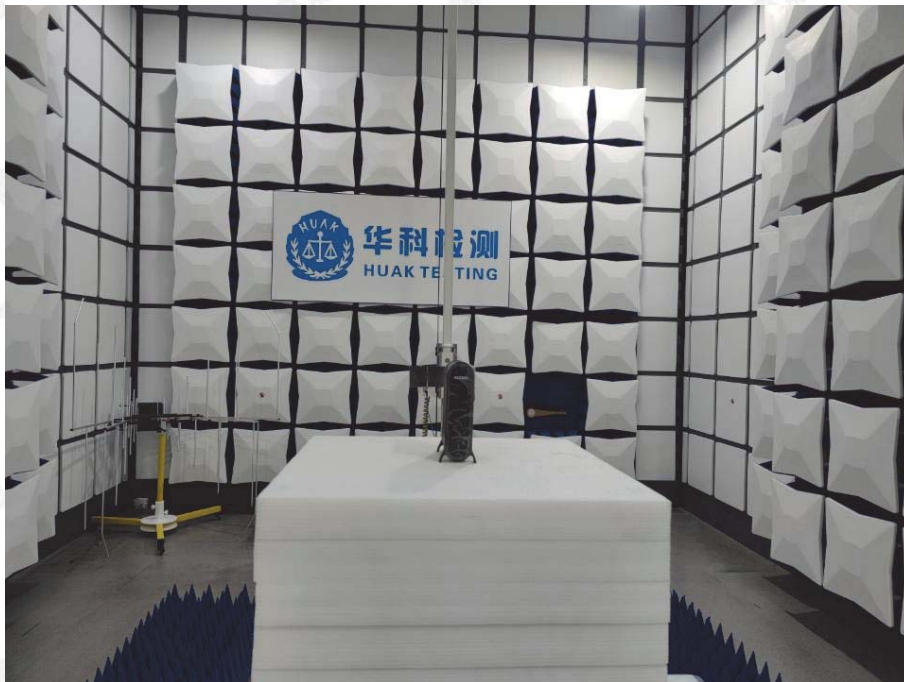
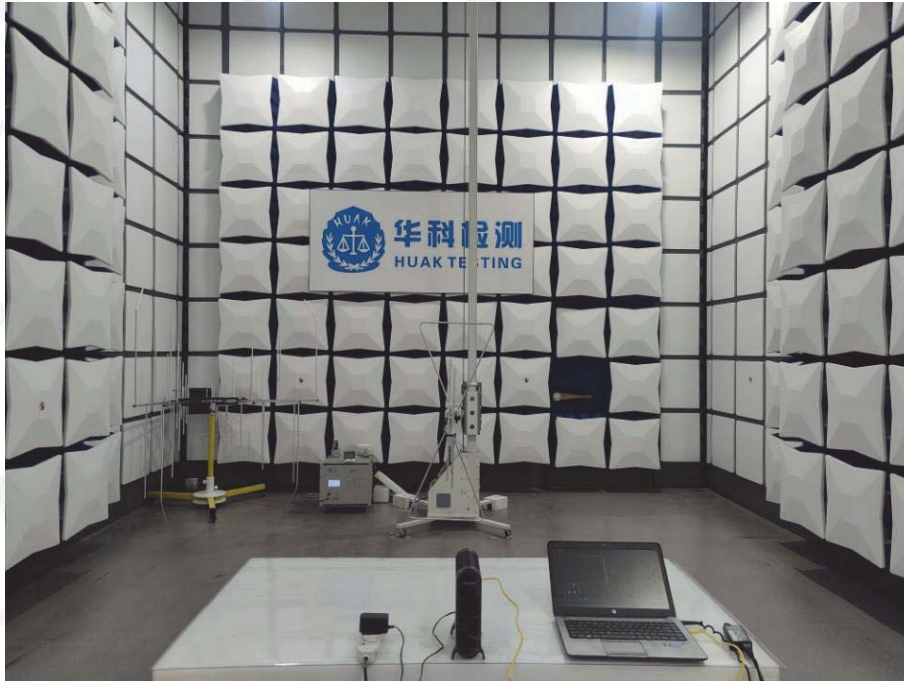




4.10. Photographs of Test Setup

Adapter 1

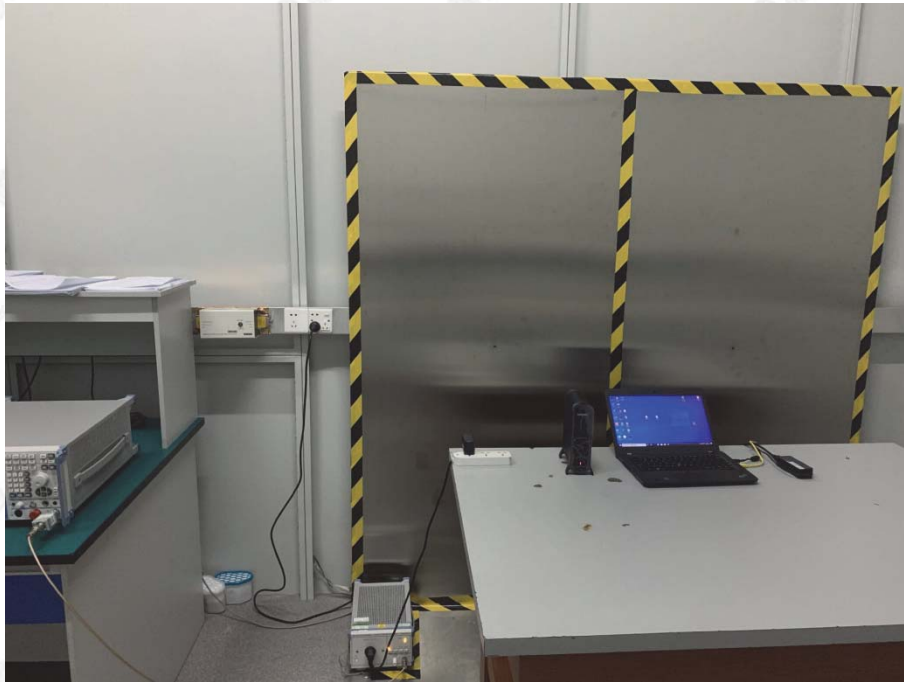
Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

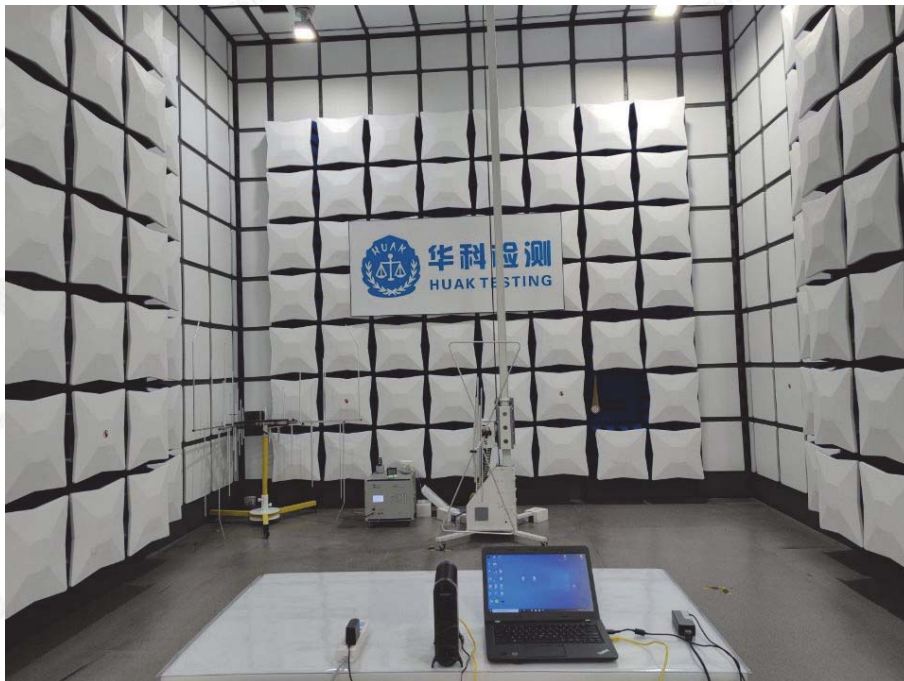
HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

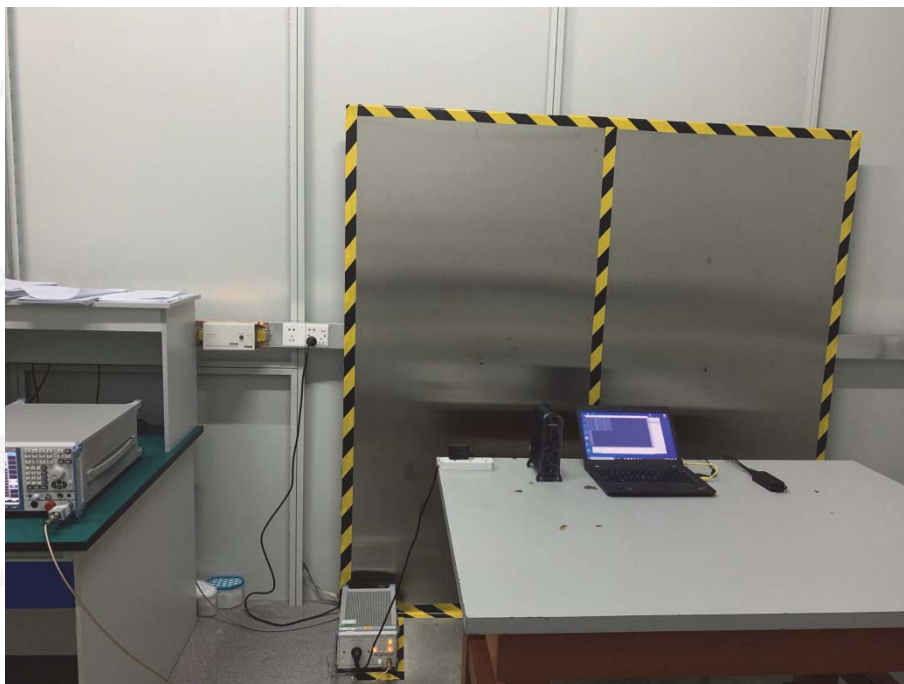
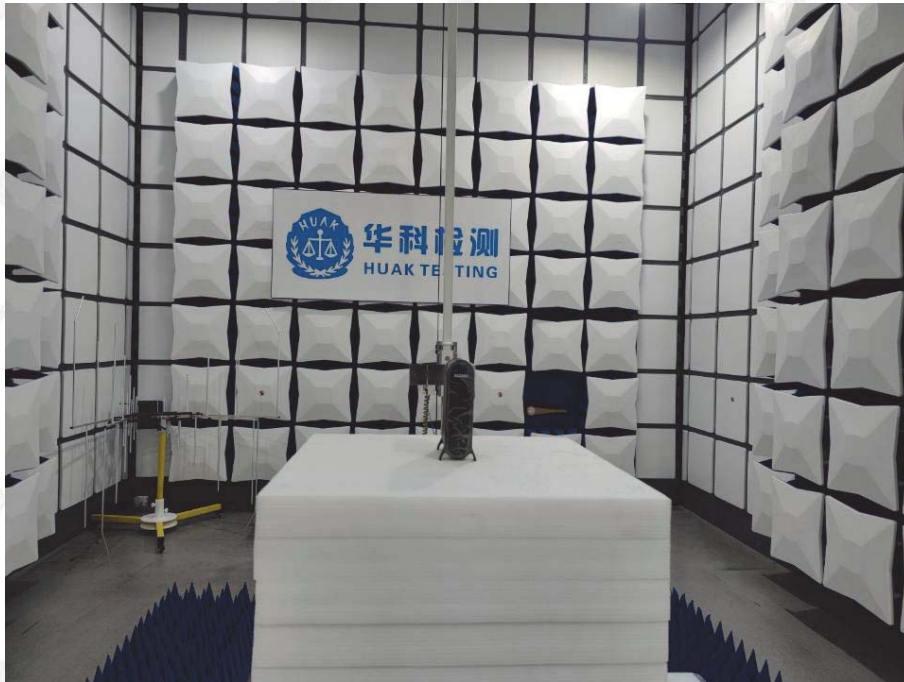
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Adapter 2

Radiated Emission





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4.11. PHOTOS OF THE EUT

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