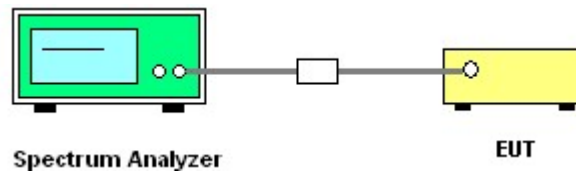
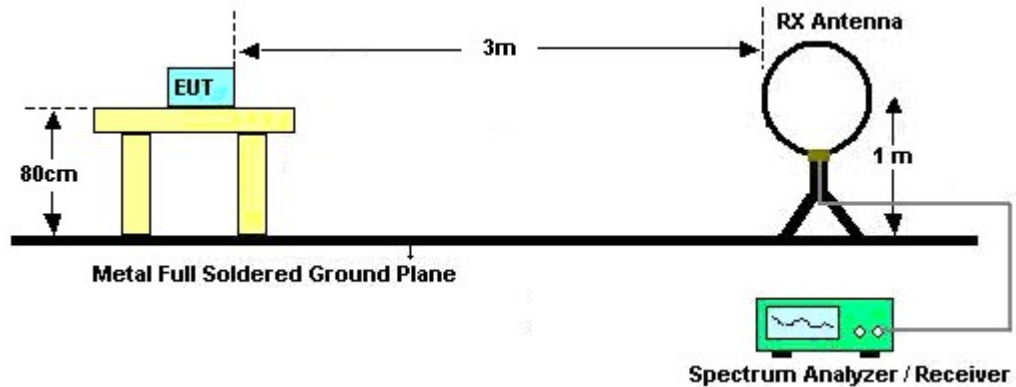


3.2.4 Test Setup

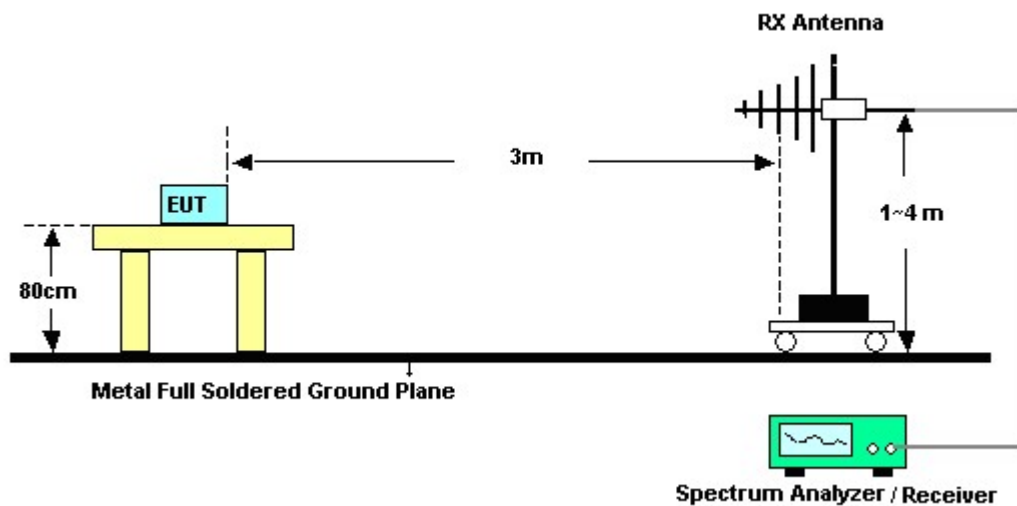
For Conducted Measurement Setup



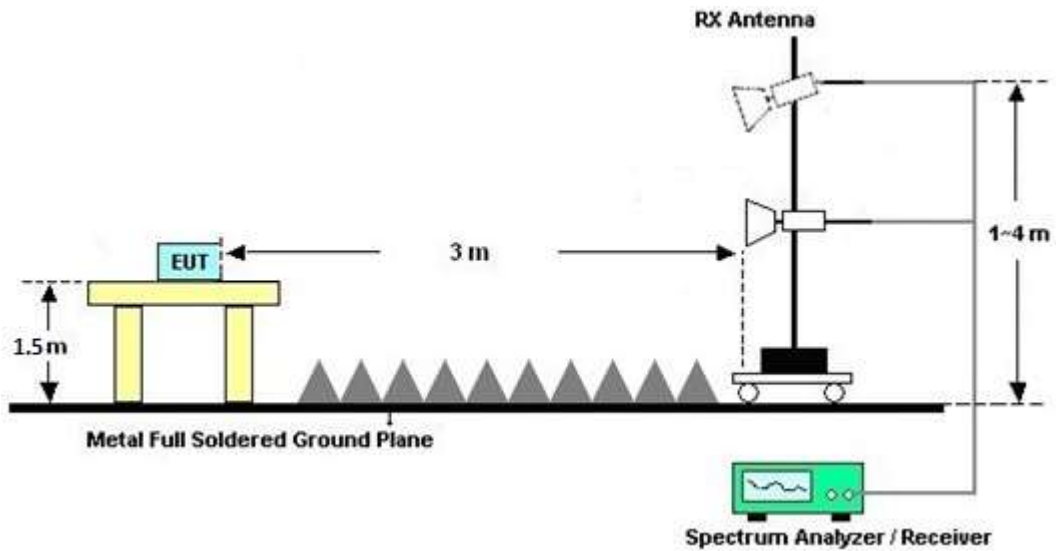
For radiated emissions below 30MHz



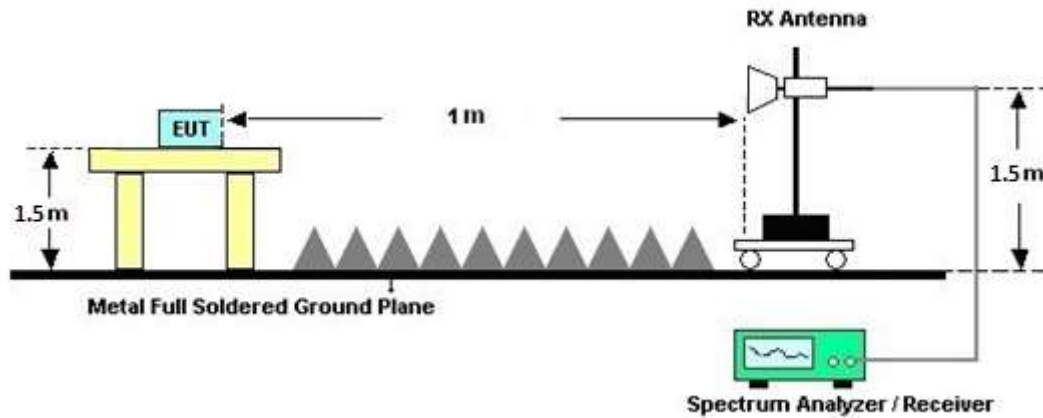
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.2.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site **v01r01**, and the result came out very similar.

3.2.6 Test Result of Conducted Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix E.

3.2.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix D.



3.3 Antenna Requirements

3.3.1 Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 16, 2026	Jun. 08, 2026~ Jun. 24, 2026	Mar. 15, 2027	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Jun. 08, 2026~ Jun. 24, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18E N	1GHz~18GHz	Aug. 07, 2025	Jun. 08, 2026~ Jun. 24, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Jun. 08, 2026~ Jun. 24, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Jun. 08, 2026~ Jun. 24, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Jun. 08, 2026~ Jun. 24, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jun. 08, 2026~ Jun. 24, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 09, 2025	Jun. 08, 2026~ Jun. 24, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Jun. 08, 2026~ Jun. 24, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER+SUHNER,EMCI	SUCOFLEX 102,EMC101Y (KM-KM-500)	803954/2,804612/2,25104234,25104235	30MHz~40GHz	Dec. 19, 2026	Jun. 08, 2026~ Jun. 24, 2026	Dec. 18, 2027	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Jun. 08, 2026~ Jun. 24, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jun. 08, 2026~ Jun. 24, 2026	N/A	Radiation (03CH21-HY)

**FCC RADIO TEST REPORT****Report No. : FR651934F**

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jun. 09, 2026	Nov. 03, 2026	Conducted (TH05-HY)
USB RF Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Jun. 09, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Jun. 09, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	EM Electronics	EMSW18SE	SW191204 (BOX8)	N/A	Dec. 29, 2025	Jun. 09, 2026	Dec. 28, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jun. 09, 2026	N/A	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Aug. 27, 2025	Jun. 25, 2026~Jun. 27, 2026	Aug. 26, 2026	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102E	505134/2	30MHz~40GHz	Oct. 31, 2025	Jun. 25, 2026~Jun. 27, 2026	Oct. 30, 2026	CSE (TH05-HY)

5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
--	--------

A1. Conducted Test Results

Test Engineer:	Benny Ku	Temperature:	21~25	°C
Test Date:	2026/6/9	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	16.00	15.90		30.00	30.00	1.42	3.81	Pass
11a	6Mbps	1	157	5785	15.90	15.80		30.00	30.00	1.42	3.81	Pass
11a	6Mbps	1	165	5825	15.80	15.80		30.00	30.00	1.42	3.81	Pass
HT20	MCS0	1	149	5745	15.70	15.80		30.00	30.00	1.42	3.81	Pass
HT20	MCS0	1	157	5785	15.70	15.80		30.00	30.00	1.42	3.81	Pass
HT20	MCS0	1	165	5825	15.80	15.80		30.00	30.00	1.42	3.81	Pass
HT40	MCS0	1	151	5755	15.70	15.70		30.00	30.00	1.42	3.81	Pass
HT40	MCS0	1	159	5795	15.60	15.60		30.00	30.00	1.42	3.81	Pass
VHT80	MCS0	1	155	5775	15.60	15.80		30.00	30.00	1.42	3.81	Pass

Power Setting	
Ant 1	Ant 2
16	15.5
16	15.5
16	15.5
16	15.5
16	16
16	16
15.5	15
15.5	15
15.5	15.5

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS8	2	149	5745	15.60	15.90	18.76	30.00		3.81		Pass
HT20	MCS8	2	157	5785	15.60	15.90	18.76	30.00		3.81		Pass
HT20	MCS8	2	165	5825	15.80	15.90	18.86	30.00		3.81		Pass
HT40	MCS8	2	151	5755	15.70	16.00	18.86	30.00		3.81		Pass
HT40	MCS8	2	159	5795	15.70	16.00	18.86	30.00		3.81		Pass
VHT80	MCS0	2	155	5775	15.50	15.90	18.71	30.00		3.81		Pass

Power Setting	
Ant 1	Ant 2
16	
16	
16	
15.75	
15.75	
15.5	

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	15.80	16.00		30.00	30.00	1.42	3.81	Pass
HE20	MCS0	1	149	5745	26/0	15.90	15.80		30.00	30.00	1.42	3.81	Pass
HE20	MCS0	1	149	5745	52/37	16.00	15.90		30.00	30.00	1.42	3.81	Pass
HE20	MCS0	1	149	5745	106/53	15.80	16.00		30.00	30.00	1.42	3.81	Pass
HE20	MCS0	1	157	5785	Full	15.90	15.90		30.00	30.00	1.42	3.81	Pass
HE20	MCS0	1	165	5825	Full	15.90	16.00		30.00	30.00	1.42	3.81	Pass
HE40	MCS0	1	151	5755	Full	15.90	16.00		30.00	30.00	1.42	3.81	Pass
HE40	MCS0	1	151	5755	242/61	15.70	16.00		30.00	30.00	1.42	3.81	Pass
HE40	MCS0	1	159	5795	Full	16.00	16.00		30.00	30.00	1.42	3.81	Pass
HE80	MCS0	1	155	5775	Full	15.90	15.90		30.00	30.00	1.42	3.81	Pass
HE80	MCS0	1	155	5775	484/65	15.80	15.90		30.00	30.00	1.42	3.81	Pass

Power Setting	
Ant 1	Ant 2
16	15.5
15.5	15
15.5	15
15	15
16	15.5
16	15.5
16	15.5
15	15
0	16
16	15.5
15.5	15

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	15.90	16.00	18.96	30.00		3.81		Pass
HE20	MCS0	2	149	5745	26/0	15.60	15.80	18.71	30.00		3.81		Pass
HE20	MCS0	2	149	5745	52/37	13.90	14.10	17.01	30.00		3.81		Pass
HE20	MCS0	2	149	5745	106/53	15.50	15.90	18.71	30.00		3.81		Pass
HE20	MCS0	2	157	5785	Full	15.70	16.00	18.86	30.00		3.81		Pass
HE20	MCS0	2	165	5825	Full	15.80	16.00	18.91	30.00		3.81		Pass
HE40	MCS0	2	151	5755	Full	15.90	16.00	18.96	30.00		3.81		Pass
HE40	MCS0	2	151	5755	242/61	15.90	16.00	18.96	30.00		3.81		Pass
HE40	MCS0	2	159	5795	Full	15.80	16.00	18.91	30.00		3.81		Pass
HE80	MCS0	2	155	5775	Full	15.70	16.00	18.86	30.00		3.81		Pass
HE80	MCS0	2	155	5775	484/65	15.70	16.00	18.86	30.00		3.81		Pass

Power Setting	
Ant 1	Ant 2
16	
16	
14	
15	
16	
16	
16	
16	
16	
16	
16	
15.5	



Appendix B.-1 Conducted Spurious Emission

Test Engineer :	Kai Liao	Temperature :	22.1~24.9°C
		Relative Humidity :	48.3~51.9%

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge)

WIFI Ant. 1+2 (1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
802.11ax HE20 Full CH 149 5745MHz		5609.6	-41.22	-14.22	-27	-49.2	2.12	2.85	3.01	0	P
		5686.8	-42.16	-42.42	0.26	-50.1	2.12	2.81	3.01	0	P
		5719.8	-40.02	-55.56	15.54	-47.94	2.12	2.79	3.01	0	P
		5723.8	-35.69	-59.95	24.26	-43.61	2.12	2.79	3.01	0	P
	*	5745	14.65	-	-	6.74	2.12	2.78	3.01	0	P
	*	5745	3.29	-	-	-4.62	2.12	2.78	3.01	0	A
802.11ax HE20 Full CH 165 5825MHz	*	5825	14.6	-	-	6.69	2.12	2.78	3.01	0	P
	*	5825	4.19	-	-	-3.72	2.12	2.78	3.01	0	A
		5850.2	-38.06	-64.6	26.54	-46	2.12	2.81	3.01	0	P
		5857.6	-42.61	-57.48	14.87	-50.58	2.12	2.84	3.01	0	P
		5895.8	-41.94	-36.51	-5.43	-49.96	2.12	2.89	3.01	0	P
		5941.2	-41.89	-14.89	-27	-49.96	2.12	2.94	3.01	0	P
Remark	● No other spurious found. ● All results are PASS against Peak and Average limit line.										

**Band 4 5725~5850MHz****WIFI 802.11ax HE80_Full (Band Edge)**

WIFI Ant. 1+2 (1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
802.11ax HE80 Full CH 155 5775MHz		5629	-41.76	-14.76	-27	-49.73	2.12	2.84	3.01	0	P
		5697.4	-40.93	-49.01	8.08	-48.86	2.12	2.8	3.01	0	P
		5717.8	-39.35	-54.34	14.99	-47.27	2.12	2.79	3.01	0	P
		5724.4	-35.16	-60.79	25.63	-43.08	2.12	2.79	3.01	0	P
	*	5775	9.31	-	-	1.42	2.12	2.76	3.01	0	P
	*	5775	-2.38	-	-	-10.27	2.12	2.76	3.01	0	A
		5853.65	-41.17	-59.85	18.68	-49.14	2.12	2.84	3.01	0	P
		5857.955	-40.96	-55.73	14.77	-48.93	2.12	2.84	3.01	0	P
		5877.02	-41.98	-50.48	8.5	-49.97	2.12	2.86	3.01	0	P
		5930.32	-41.62	-14.62	-27	-49.67	2.12	2.92	3.01	0	P
Remark	● No other spurious found. ● All results are PASS against Peak and Average limit line.										



Appendix B.-2 Conducted Spurious Emission

Test Engineer :	Kai Liao	Temperature :	22.1~24.9°C
		Relative Humidity :	48.3~51.9%

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge)

WIFI Ant. 1+2 (2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
802.11ax HE20 Full CH 149 5745MHz		5611.8	-40.54	-13.54	-27	-50.22	3.81	2.86	3.01	0	P
		5679.4	-40.36	-35.16	-5.2	-50	3.81	2.82	3.01	0	P
		5717.6	-39.85	-54.78	14.93	-49.46	3.81	2.79	3.01	0	P
		5720.4	-39.33	-55.84	16.51	-48.94	3.81	2.79	3.01	0	P
	*	5745	15.27	-	-	5.67	3.81	2.78	3.01	0	P
	*	5745	5.24	-	-	-4.36	3.81	2.78	3.01	0	A
802.11ax HE20 Full CH 165 5825MHz	*	5825	17.48	-	-	7.87	3.81	2.79	3.01	0	P
	*	5825	5.64	-	-	-3.97	3.81	2.79	3.01	0	A
		5850.8	-40.36	-65.54	25.18	-50.01	3.81	2.83	3.01	0	P
		5859.8	-39.69	-53.94	14.25	-49.38	3.81	2.87	3.01	0	P
		5922.2	-40.42	-15.48	-24.94	-50.24	3.81	3	3.01	0	P
		5949.2	-40.54	-13.54	-27	-50.4	3.81	3.04	3.01	0	P
Remark	- No other spurious found. - All results are PASS against Peak and Average limit line.										

**Band 4 5725~5850MHz****WIFI 802.11ax HE80_Full (Band Edge)**

WIFI Ant. 1+2 (2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
802.11ax HE80 Full CH 155 5775MHz		5613.8	-40.54	-13.54	-27	-50.22	3.81	2.86	3.01	0	P
		5690.2	-35.87	-38.64	2.77	-45.51	3.81	2.82	3.01	0	P
		5705.4	-36.61	-48.12	11.51	-46.24	3.81	2.81	3.01	0	P
		5724.8	-30.54	-57.08	26.54	-40.15	3.81	2.79	3.01	0	P
	*	5775	10.37	-	-	0.79	3.81	2.76	3.01	0	P
	*	5775	-0.72	-	-	-10.3	3.81	2.76	3.01	0	A
		5854.47	-39.36	-56.17	16.81	-49.05	3.81	2.87	3.01	0	P
		5870.665	-40.28	-51.49	11.21	-49.97	3.81	2.87	3.01	0	P
		5922.325	-40.71	-15.68	-25.03	-50.53	3.81	3	3.01	0	P
		5938.93	-37.85	-10.85	-27	-47.71	3.81	3.04	3.01	0	P
Remark	● No other spurious found. ● All results are PASS against Peak and Average limit line.										



Appendix C.-1 Conducted Spurious Emission Plots

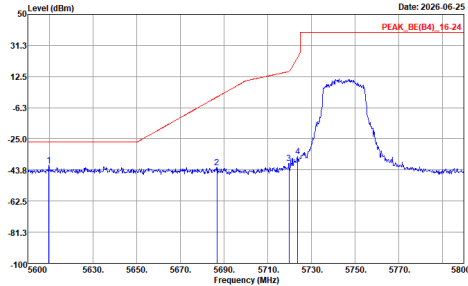
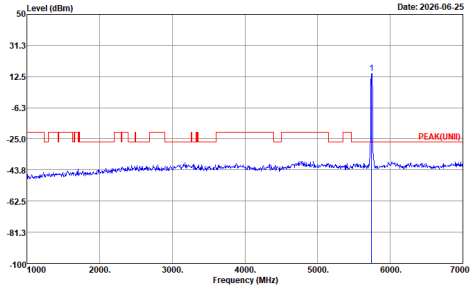
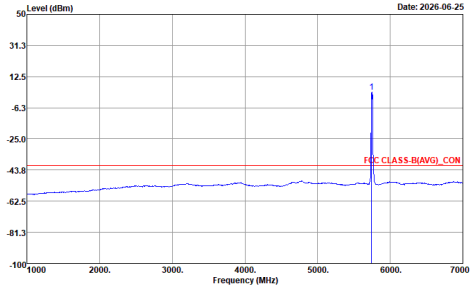
Test Engineer :	Kai Liao	Temperature :	22.1~24.9°C
		Relative Humidity :	48.3~51.9%

Note symbol

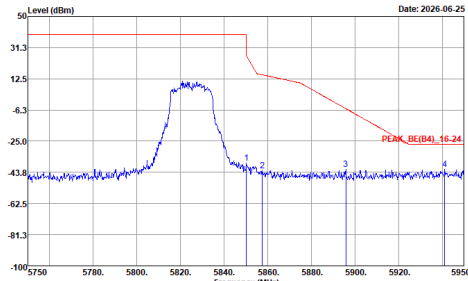
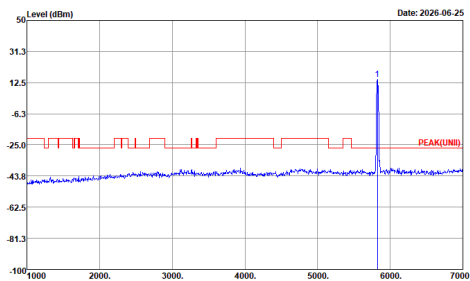
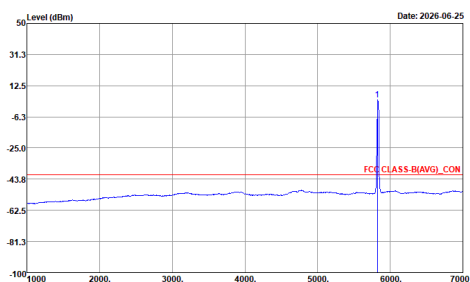
-L	Low channel location
-R	High channel location



Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge)

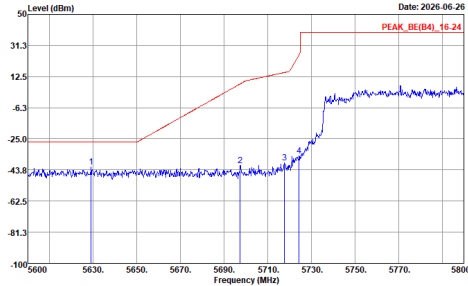
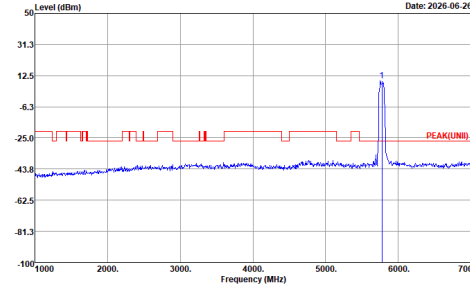
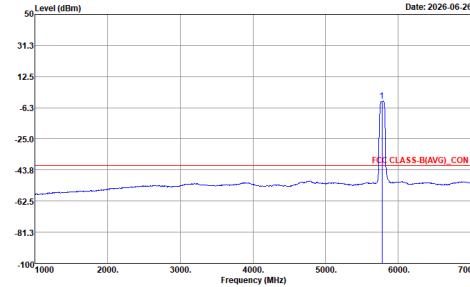
WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2 (1)	CSE	Fundamental
Peak	 Level (dBm) Date: 2026-06-25 PEAK_BE(B4)_16.24 Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+2.12 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : 651934 Mode : 12 Setting : 16 Ant : 1 Data Rate : MCS0	 Level (dBm) Date: 2026-06-25 PEAK(UNB) Site : TH05-HY Condition : PEAK(UNB) ANT GAIN+2.12 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : 651934 Mode : 12 Setting : 16 Ant : 1 Data Rate : MCS0
Avg.	Left Blank	 Level (dBm) Date: 2026-06-25 FCC CLASS-B(AVG)_CON Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+2.12 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : 651934 Mode : 12 Setting : 16 Ant : 1 Data Rate : MCS0



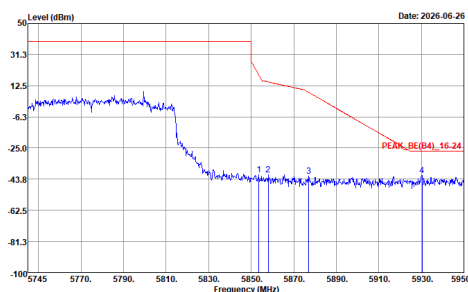
WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2 (1)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+2.12 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak Project : 651934 Mode : 14 Setting : 16 Ant : 1 Data Rate : MCS0	 Site : TH05-HY Condition : PEAK(UNB) ANT GAIN+2.12 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak Project : 651934 Mode : 14 Setting : 16 Ant : 1 Data Rate : MCS0
Avg.	Left Blank	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+2.12 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak Project : 651934 Mode : 14 Setting : 16 Ant : 1 Data Rate : MCS0



Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge)

WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE80 Full CH155 5775MHz - L	
1+2 (1)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+2.12 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 1 Data Rate : MCS0	 Site : TH05-HY Condition : PEAK(UNB) ANT GAIN+2.12 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 1 Data Rate : MCS0
Avg.	Left Blank	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+2.12 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 1 Data Rate : MCS0



WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE80 Full CH155 5775MHz - R	
1+2 (1)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+2.12 HORIZONTAL Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 1 Data Rate : MCS0	Left Blank



Appendix C. Conducted Spurious Emission Plots

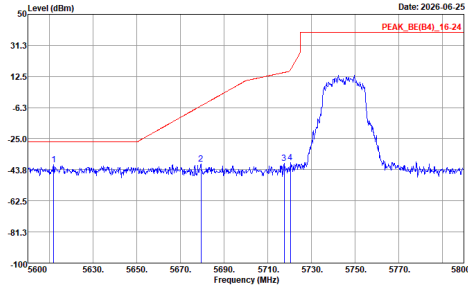
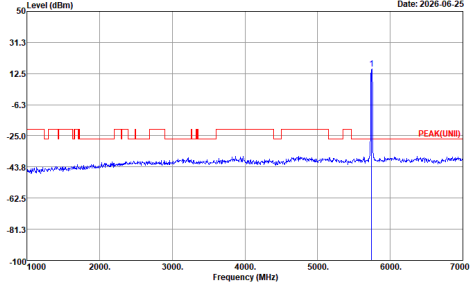
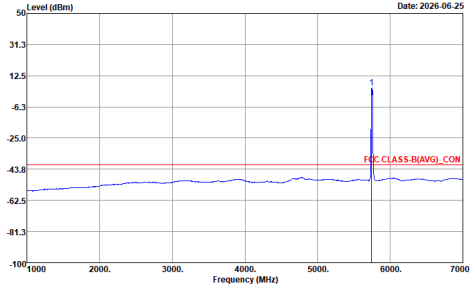
Test Engineer :	Kai Liao	Temperature :	22.1~24.9°C
		Relative Humidity :	48.3~51.9%

Note symbol

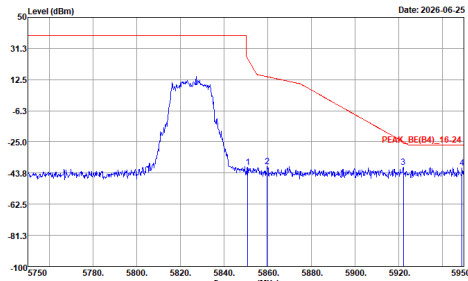
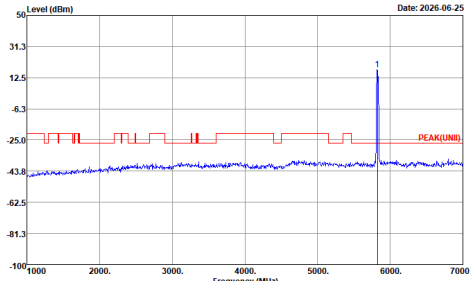
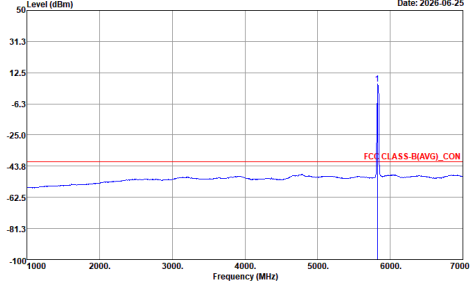
-L	Low channel location
-R	High channel location



Band 4 5725~5850MHz
WIFI 802.11ax HE20 Full (Band Edge)

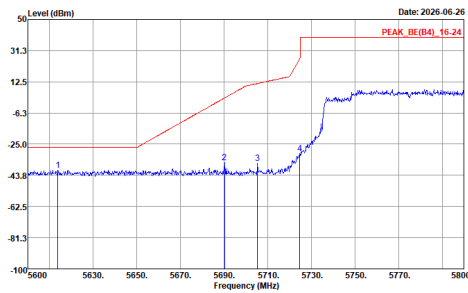
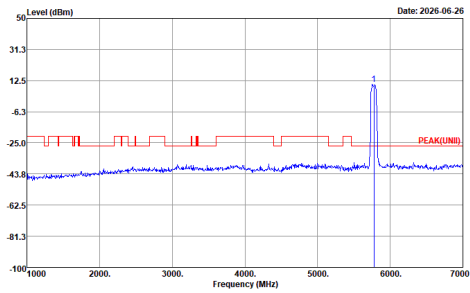
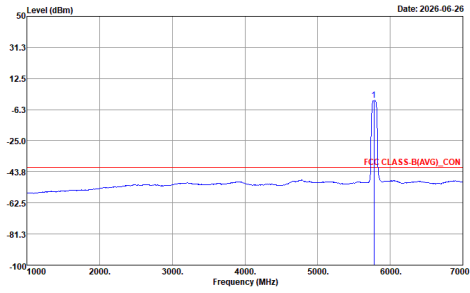
WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2 (2)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+3.81 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak Project : 651934 Mode : 12 Setting : 16 Ant : 2 Data Rate : MCS0	 Site : TH05-HY Condition : PEAK(UNI) ANT GAIN+3.81 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak Project : 651934 Mode : 12 Setting : 16 Ant : 2 Data Rate : MCS0
Avg.	Left Blank	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+3.81 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak Project : 651934 Mode : 12 Setting : 16 Ant : 2 Data Rate : MCS0



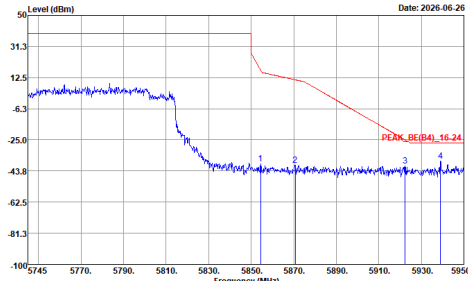
WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2 (2)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK(BE(B4)_16-24 ANT GAIN+3.81 HORIZONTAL Detector : Peak Project : 651934 Mode : 14 Setting : 16 Ant : 2 Data Rate : MCS0	 Site : TH05-HY Condition : PEAK(UNII) ANT GAIN+3.81 HORIZONTAL Detector : Peak Project : 651934 Mode : 14 Setting : 16 Ant : 2 Data Rate : MCS0
Avg.	Left Blank	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+3.81 HORIZONTAL Detector : Peak Project : 651934 Mode : 14 Setting : 16 Ant : 2 Data Rate : MCS0



Band 4 5725~5850MHz
WIFI 802.11ax HE80 Full (Band Edge)

WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE80 Full CH155 5775MHz - L	
1+2 (2)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK_BE(B4)_16-24 ANT GAIN+3.81 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 2 Data Rate : MCS0	 Site : TH05-HY Condition : PEAK(UNI) ANT GAIN+3.81 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 2 Data Rate : MCS0
Avg.	Left Blank	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+3.81 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 2 Data Rate : MCS0



WIFI	Band 4 5725~5850MHz	
ANT	802.11ax HE80 Full CH155 5775MHz - R	
1+2 (2)	CSE	Fundamental
Peak	 Site : TH05-HY Condition : PEAK_BE(B4)_16.24 ANT GAIN+3.81 HORIZONTAL Detector : Peak Project : 651934 Mode : 15 Setting : 16 Ant : 2 Data Rate : MCS0	Left Blank



Appendix D. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng and Ray Lung	Temperature :	21.1 ~ 25.7°C
		Relative Humidity :	55.8 ~ 63.2%

Note symbol

-L	Low channel location
-R	High channel location

D-1.Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 13	U-NII-3	5.725-5.85	1 + 2	802.11ax HE20	157	5785	MCS0	-	-
Mode 16	U-NII-3	5.725-5.85	1 + 2	802.11ax HE80	155	5775	MCS0	-	LF
Mode 17	U-NII-3	5.725-5.85	1 + 2	802.11ax HE80	155	5775	MCS0	-	SHF

D-2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
13	802.11ax HE20	157	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE20	157	11570.00	40.89	54.00	-13.11	V	Avg.	Pass	-	Harmonic
16	LF	155	740.04	38.09	46.00	-7.91	H	Peak	Pass	-	LF
17	SHF	155	39472.00	51.73	74.00	-22.27	V	Peak	Pass	-	SHF

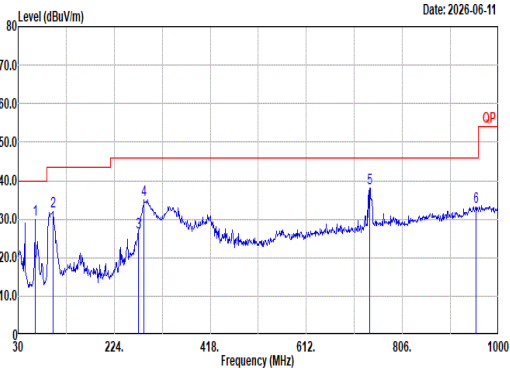
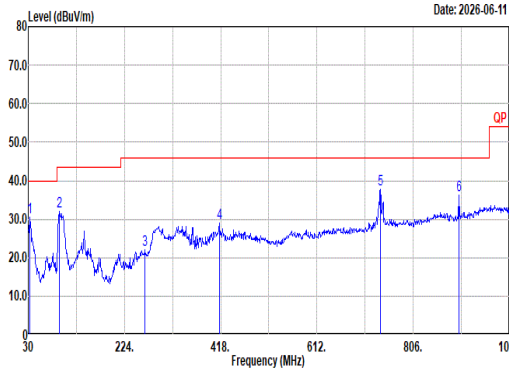


Mode	13																																																																																																																									
	Harmonic																																																																																																																									
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_5785MHz																																																																																																																									
ANT	1 + 2																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																								
Peak Avg	Level (dBuV/m) Date: 2026-06-10 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 11570.00</td><td>51.32</td><td>74.00</td><td>-22.68</td><td>32.65</td><td>38.46</td><td>19.08</td><td>40.86</td><td>1.99</td><td>-- -- Peak</td></tr><tr><td>2 11570.00</td><td>40.84</td><td>54.00</td><td>-13.16</td><td>22.17</td><td>38.46</td><td>19.08</td><td>40.86</td><td>1.99</td><td>-- -- Average</td></tr><tr><td>3 17355.00</td><td>53.65</td><td>68.20</td><td>-14.55</td><td>35.23</td><td>39.90</td><td>23.72</td><td>47.61</td><td>2.41</td><td>-- -- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 11570.00	51.32	74.00	-22.68	32.65	38.46	19.08	40.86	1.99	-- -- Peak	2 11570.00	40.84	54.00	-13.16	22.17	38.46	19.08	40.86	1.99	-- -- Average	3 17355.00	53.65	68.20	-14.55	35.23	39.90	23.72	47.61	2.41	-- -- Peak	Level (dBuV/m) Date: 2026-06-10 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_250807 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 11570.00</td><td>51.66</td><td>74.00</td><td>-22.34</td><td>32.99</td><td>38.46</td><td>19.08</td><td>40.86</td><td>1.99</td><td>-- -- Peak</td></tr><tr><td>2 11570.00</td><td>40.89</td><td>54.00</td><td>-13.11</td><td>22.22</td><td>38.46</td><td>19.08</td><td>40.86</td><td>1.99</td><td>-- -- Average</td></tr><tr><td>3 17355.00</td><td>53.93</td><td>68.20</td><td>-14.27</td><td>35.51</td><td>39.90</td><td>23.72</td><td>47.61</td><td>2.41</td><td>-- -- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 11570.00	51.66	74.00	-22.34	32.99	38.46	19.08	40.86	1.99	-- -- Peak	2 11570.00	40.89	54.00	-13.11	22.22	38.46	19.08	40.86	1.99	-- -- Average	3 17355.00	53.93	68.20	-14.27	35.51	39.90	23.72	47.61	2.41	-- -- Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg																																																																																																																	
1 11570.00	51.32	74.00	-22.68	32.65	38.46	19.08	40.86	1.99	-- -- Peak																																																																																																																	
2 11570.00	40.84	54.00	-13.16	22.17	38.46	19.08	40.86	1.99	-- -- Average																																																																																																																	
3 17355.00	53.65	68.20	-14.55	35.23	39.90	23.72	47.61	2.41	-- -- Peak																																																																																																																	
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																		
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1 11570.00	51.66	74.00	-22.34	32.99	38.46	19.08	40.86	1.99	-- -- Peak																																																																																																																	
2 11570.00	40.89	54.00	-13.11	22.22	38.46	19.08	40.86	1.99	-- -- Average																																																																																																																	
3 17355.00	53.93	68.20	-14.27	35.51	39.90	23.72	47.61	2.41	-- -- Peak																																																																																																																	



Mode	13	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_5785MHz	
ANT	1 + 2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	Level (dBuV/m) Date: 2026-06-10 Frequency (MHz) Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL	Level (dBuV/m) Date: 2026-06-10 Frequency (MHz) Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL



Mode	16																																																																																																																																																																																																		
	LF																																																																																																																																																																																																		
	U-NII-3_5.725-5.85_802.11ax HE80_CH155_5775MHz																																																																																																																																																																																																		
ANT	1 + 2																																																																																																																																																																																																		
Pol.	Horizontal								Vertical																																																																																																																																																																																										
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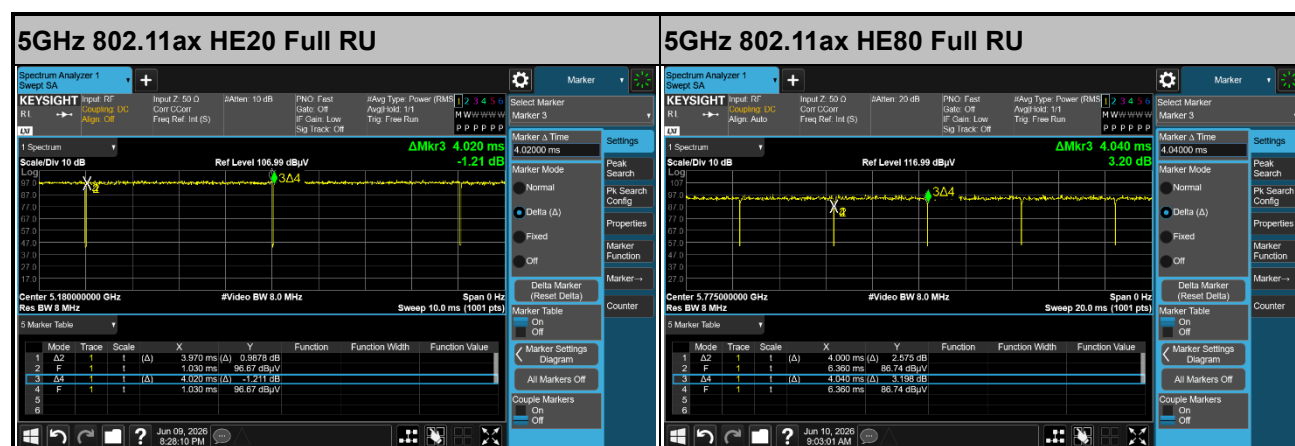


Mode	17																																																																																																
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Peak	Date: 2026-06-11 Site : 03CH21-HY Condition: PEAK(UNII) 1m BBHA9170_1223_250702 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30944.00</td><td>51.52</td><td>74.00</td><td>-22.48</td><td>40.26</td><td>44.38</td><td>37.08</td><td>60.66</td><td>-9.54</td><td>--</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	30944.00	51.52	74.00	-22.48	40.26	44.38	37.08	60.66	-9.54	--	Peak	Date: 2026-06-11 Site : 03CH21-HY Condition: PEAK(UNII) 1m BBHA9170_1223_250702 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>39472.00</td><td>51.73</td><td>74.00</td><td>-22.27</td><td>39.09</td><td>45.50</td><td>37.29</td><td>60.61</td><td>-9.54</td><td>--</td><td>Peak</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	39472.00	51.73	74.00	-22.27	39.09	45.50	37.29	60.61	-9.54	--	Peak
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Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11ax HE20 Full RU	98.76	-	-	10Hz
1+2	5GHz 802.11ax HE80 Full RU	99.01	-	-	10Hz

MIMO <Antenna 1+2>





Appendix G. Sample List

Features	Specifications
CPU	Intel, CPU WCL C5 320 (204) Intel, CPU WCL C5 315 (204) Intel, CPU WCL C3 304 (104)
Memory (On Board)	Samsung, K3KL9L90DM-MGCU (64Gb) SK Hynix, H58G66CK8BX147 (64Gb) Samsung, K3KL9L90EM-MGCU (64Gb) Samsung, K3KL8L80DM-MGCU (32Gb) SK Hynix, H58G56CK8BX146 (32Gb) Samsung, K3KL8L80EM-MGCU (32Gb)
PCB	AOSHIKANG, K-3 ZHIBOXIN, zbx002
WLAN	Intel, Wi-Fi 6E AX211.D2WG.NV
SSD	Samsung, MZVL8512HFLU-00B07 (512GB) PM9C1b Phison ESO512GTLCL-EM1-2AK (512GB) ABT3 TWSC, TSC1DN256-F8T30ST (256GB) Phison, ESO01TBTCLCL-EM1-2AK (1TB) ABT3 Phison, ESO256GHLCJ-EL1-2AK (256G) ABT2 Samsung MZVL81T0HFLB-00B07 (1TB) PM9C1b Samsung, MZVL8256HFJD-00B07 (256GB) PM9C1b SK Hynix, HFS001TEM9X174N (1TB) PCV10 SK Hynix, HFS512GEM9X174N (512GB) PVC10 LONGSYS, APF20-256G-P28111321A (256GB)
Display	K&D tech, KD140N52-30NI-A001 K&D tech, KD140N57-40IE-A001 STARRY ELECTRONIC TECHNOLOGY, 2061140OP8045002-52E
Battery	Ganfeng, BATLG14S1P61
Camera	Shinotech, GL213B-0A SUNWIN, SIDCF020S1161-VA
Adapter	PI Electronics, LP65WFC20P HONOR, LP65WFC20H
Antenna	Innowave, main & aux antenna Speed, main & aux antenna

Priority	Vendor	Part Number	Sample 1	Sample 2	Sample 3	Sample 4
CPU	Intel	CPU WCL C5 320 (204)	V			V
		CPU WCL C5 315 (204)		V		
		CPU WCL C3 304 (104)			V	
Memory (On Board)	Samsung	K3KL9L90DM-MGCU (64Gb)		V		
	SK Hynix	H58G66CK8BX147 (64Gb)	V			V
	Samsung	K3KL9L90EM-MGCU (64Gb)			V	
	Samsung	K3KL8L80DM-MGCU (32Gb)				
	SK Hynix	H58G56CK8BX146 (32Gb)				
	Samsung	K3KL8L80EM-MGCU (32Gb)				
PCB	AOSHIKANG	K-3	V	V		V
	ZHIBOXIN	zbx002			V	
WLAN	Intel	Wi-Fi 6E AX211.D2WG.NV	V	V	V	V
SSD	Samsung	MZVL8512HFLU-00B07 (512GB) PM9C1b	V			
	Phison	ESO512GTLCL-EM1- 2AK (512GB) ABT3		V		
	TWSC	TSC1DN256-F8T30ST (256GB)			V	
	Phison	ESO01TBTCLCL-EM1- 2AK (1TB) ABT3				V
	Phison	ESO256GHL CJ-EL1- 2AK (256G) ABT2				
	Samsung	MZVL81T0HFLB-00B07 (1TB) PM9C1b				
	Samsung	MZVL8256HFJD-00B07 (256GB) PM9C1b				
	SK Hynix	HFS001TEM9X174N (1TB) PCV10				
	LONGSYS	APF20-256G- P28111321A (256GB)				
Display	K&D tech	KD140N52-30NI-A001	V			V
	K&D tech	KD140N57-40IE-A001		V		
	STARRY ELECTRONIC TECHNOLOGY	20611400P8045002- 52E			V	
Battery	Ganfeng,	BATLG14S1P61	V	V	V	V
Camera	Shinotech,	GL213B-0A	V	V		V
	SUNWIN	SIDCF020S1161-VA			V	
Adapter	PI Electronics	LP65WFC20P	V	V	V	V
	HONOR,	LP65WFC20H	V	V	V	V
Antenna	Innowave	main & aux antenna	V	V		V
	Speed	main & aux antenna			V	

Priority	Vendor	Part Number	Sample 5	Sample 6	Sample 7
CPU	Intel	CPU WCL C5 320 (204)	V	V	V
		CPU WCL C5 315 (204)			
		CPU WCL C3 304 (104)			
Memory (On Board)	Samsung	K3KL9L90DM-MGCU (64Gb)			
	SK Hynix	H58G66CK8BX147 (64Gb)	V	V	V
	Samsung	K3KL9L90EM-MGCU (64Gb)			
	Samsung	K3KL8L80DM-MGCU (32Gb)			
	SK Hynix	H58G56CK8BX146 (32Gb)			
	Samsung	K3KL8L80EM-MGCU (32Gb)			
PCB	AOSHIKANG	K-3	V	V	V
	ZHIBOXIN	zbx002			
WLAN	Intel	Wi-Fi 6E AX211.D2WG.NV	V	V	V
SSD	Samsung	MZVL8512HFLU-00B07 (512GB) PM9C1b			
	Phison	ESO512GTLCL-EM1- 2AK (512GB) ABT3			
	TWSC	TSC1DN256-F8T30ST (256GB)			
	Phison	ESO01TBTCLCL-EM1- 2AK (1TB) ABT3			
	Phison	ESO256GHLCL-EL1- 2AK (256G) ABT2			
	Samsung	MZVL81T0HFLB-00B07 (1TB) PM9C1b	V		
	Samsung	MZVL8256HFJD-00B07 (256GB) PM9C1b			
	SK Hynix	HFS001TEM9X174N (1TB) PCV10		V	
	LONGSYS	APF20-256G- P28111321A (256GB)			V
Display	K&D tech	KD140N52-30NI-A001	V	V	V
	K&D tech	KD140N57-40IE-A001			
	STARRY ELECTRONIC TECHNOLOGY	20611400P8045002- 52E			
Battery	Ganfeng,	BATLG14S1P61	V	V	V
Camera	Shinotech,	GL213B-0A	V	V	V
	SUNWIN	SIDCF020S1161-VA			
Adapter	PI Electronics	LP65WFC20P	V	V	V
	HONOR	LP65WFC20H	V	V	V
Antenna	Innowave	main & aux antenna	V	V	V
	Speed	main & aux antenna			