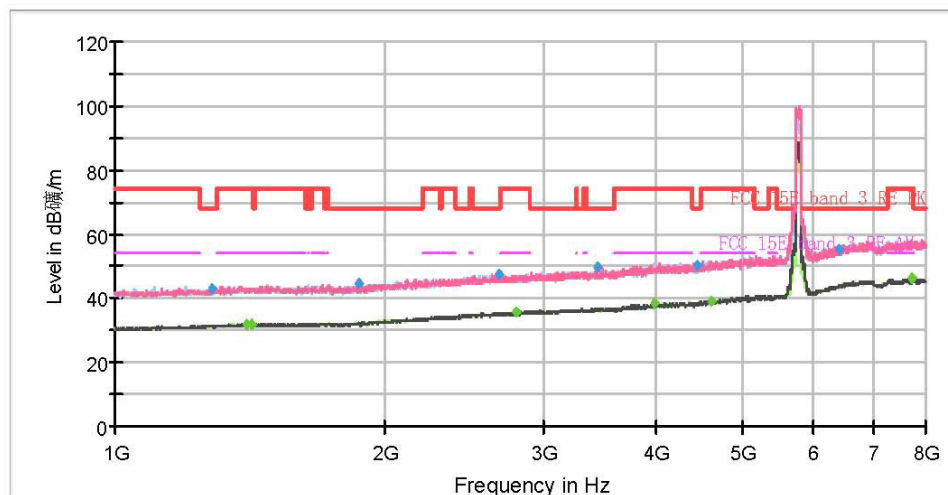
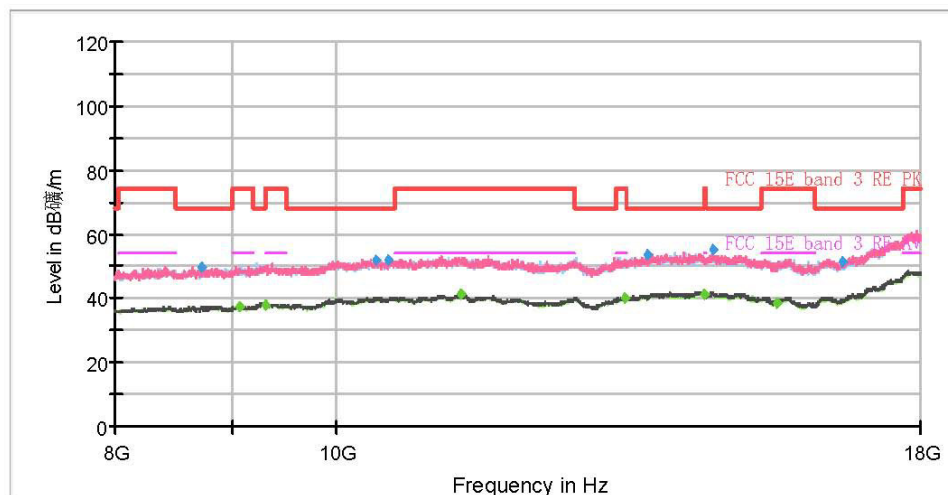


802.11ax HE80 CH155



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1283.50	43.09	---	68.20	25.11	500.00	200.0	H	158.00	-4
1402.50	---	31.86	54.00	22.14	500.00	100.0	H	3.00	-3
1421.75	---	32.06	54.00	21.94	500.00	100.0	V	174.00	-3
1866.25	44.45	---	68.20	23.75	500.00	100.0	H	4.00	-2
2678.25	47.23	---	68.20	20.97	500.00	200.0	V	318.00	2
2797.25	---	35.50	54.00	18.50	500.00	200.0	V	0.00	2
3448.25	49.42	---	68.20	18.78	500.00	200.0	H	76.00	3
3996.00	---	38.30	54.00	15.70	500.00	200.0	V	114.00	5
4465.00	50.04	---	68.20	18.16	500.00	100.0	H	3.00	6
4615.50	---	38.89	54.00	15.11	500.00	200.0	H	325.00	7
6395.25	55.09	---	68.20	13.11	500.00	100.0	V	339.00	13
7728.75	---	46.08	54.00	7.92	500.00	100.0	V	262.00	15



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8720.00	49.79	---	68.20	18.41	500.00	100.0	V	358.00	6
9060.00	---	37.66	54.00	16.34	500.00	100.0	H	228.00	7
9305.00	---	38.23	54.00	15.77	500.00	100.0	V	348.00	7
10400.00	52.00	---	68.20	16.20	500.00	100.0	H	24.00	9
10540.00	51.96	---	68.20	16.24	500.00	200.0	H	151.00	9
11332.50	---	41.15	54.00	12.85	500.00	200.0	H	296.00	9
13362.50	---	40.19	54.00	13.81	500.00	200.0	V	42.00	8
13680.00	53.31	---	68.20	14.89	500.00	200.0	V	187.00	9
14487.50	---	41.24	54.00	12.76	500.00	100.0	V	130.00	10
14602.50	55.00	---	68.20	13.20	500.00	100.0	H	4.00	9
15575.00	---	38.62	54.00	15.38	500.00	100.0	H	153.00	8
16655.00	51.24	---	68.20	16.96	500.00	200.0	V	204.00	10

5.6. Conducted Emission

Ambient condition

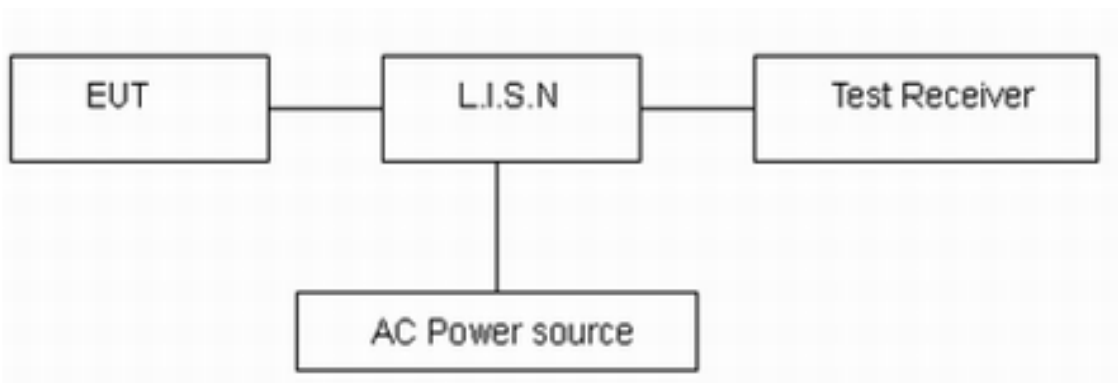
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

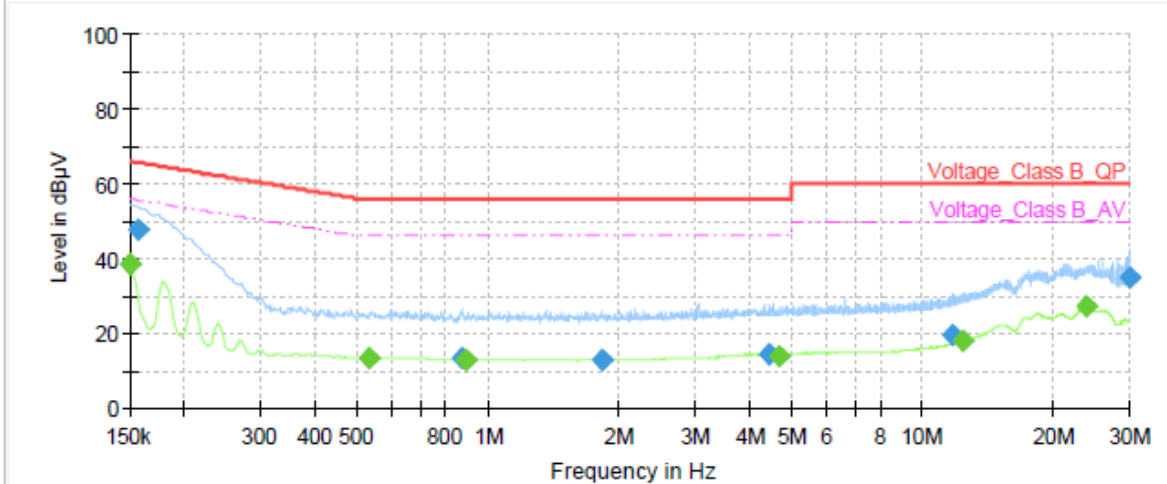
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

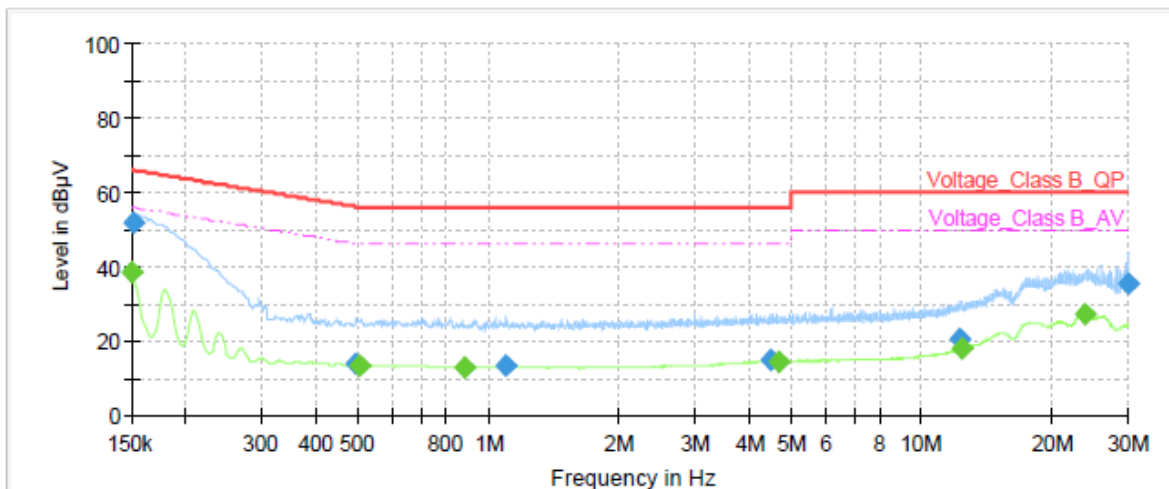
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11ax HE20 Channel 48 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	38.40	56.00	17.60	1000.0	9.000	L1	ON	21.0
0.16	47.75	---	65.63	17.88	1000.0	9.000	L1	ON	21.0
0.53	---	13.30	46.00	32.70	1000.0	9.000	L1	ON	20.8
0.87	13.22	---	56.00	42.78	1000.0	9.000	L1	ON	20.3
0.89	---	12.84	46.00	33.16	1000.0	9.000	L1	ON	20.3
1.83	13.06	---	56.00	42.94	1000.0	9.000	L1	ON	19.8
4.43	14.51	---	56.00	41.49	1000.0	9.000	L1	ON	19.5
4.66	---	14.08	46.00	31.92	1000.0	9.000	L1	ON	19.5
11.69	19.36	---	60.00	40.64	1000.0	9.000	L1	ON	19.6
12.38	---	17.91	50.00	32.09	1000.0	9.000	L1	ON	19.6
23.83	---	27.07	50.00	22.93	1000.0	9.000	L1	ON	19.7
29.98	34.89	---	60.00	25.11	1000.0	9.000	L1	ON	19.7

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	---	38.37	56.00	17.63	1000.0	9.000	N	ON	21.0
0.15	52.03	---	65.88	13.85	1000.0	9.000	N	ON	21.0
0.49	14.06	---	56.10	42.04	1000.0	9.000	N	ON	20.9
0.50	---	13.38	46.00	32.62	1000.0	9.000	N	ON	20.9
0.88	---	12.75	46.00	33.25	1000.0	9.000	N	ON	20.3
1.10	13.20	---	56.00	42.80	1000.0	9.000	N	ON	20.2
4.49	14.70	---	56.00	41.30	1000.0	9.000	N	ON	19.5
4.67	---	14.25	46.00	31.75	1000.0	9.000	N	ON	19.5
12.23	20.53	---	60.00	39.47	1000.0	9.000	N	ON	19.6
12.40	---	17.77	50.00	32.23	1000.0	9.000	N	ON	19.6
23.77	---	27.38	50.00	22.62	1000.0	9.000	N	ON	19.8
29.98	35.44	---	60.00	24.56	1000.0	9.000	N	ON	19.7

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2024-05-07	2025-05-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2024-05-07	2025-05-06
Temperature Chamber	ESPEC	SU-242	93000506	2023-12-05	2024-12-04
AC Power Supply	Preen	AFC-11005 G	F309040118	2023-12-10	2024-12-09
Attenuator	HASCO	HA18A-10	0003	/	/
Unwanted Emission					
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101298	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01111	2022-10-25	2025-10-24
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	MWPA.CN	MWLA-0102 00G40	YQ2103039B01	2024-05-07	2025-05-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2023-01-17	2026-01-16
Amplifier	MicroWave	KLNA-1804 0050	220826001	2024-05-08	2025-05-07
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2022-12-10	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

***** END OF REPORT *****