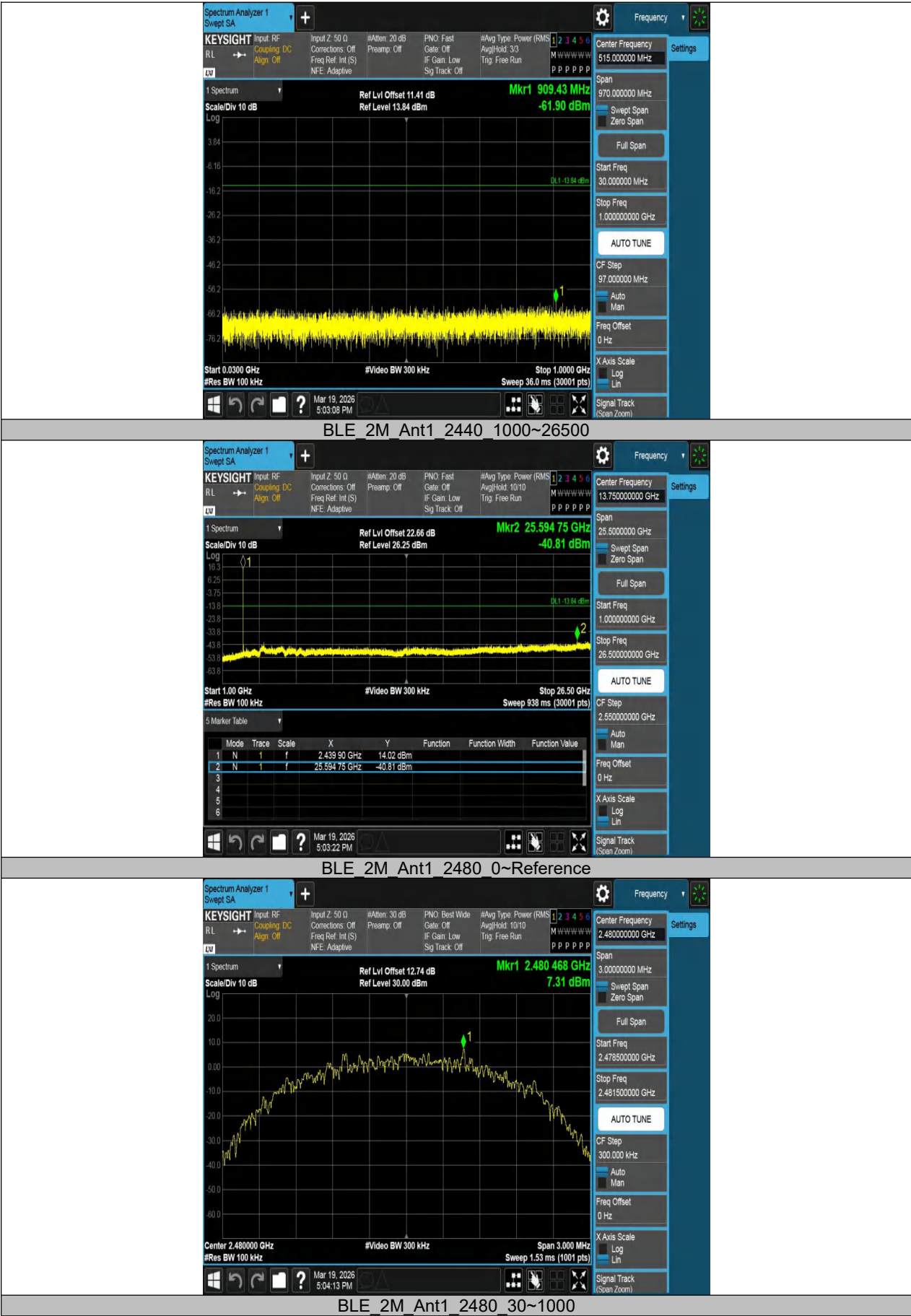


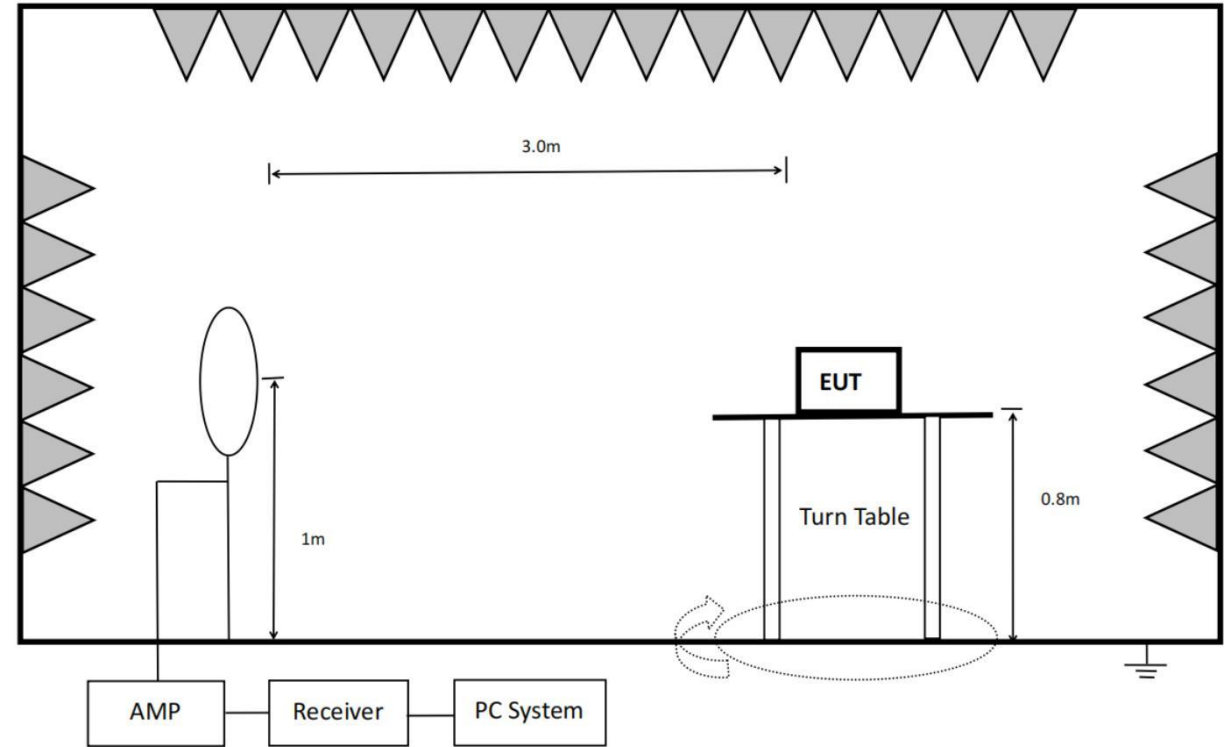




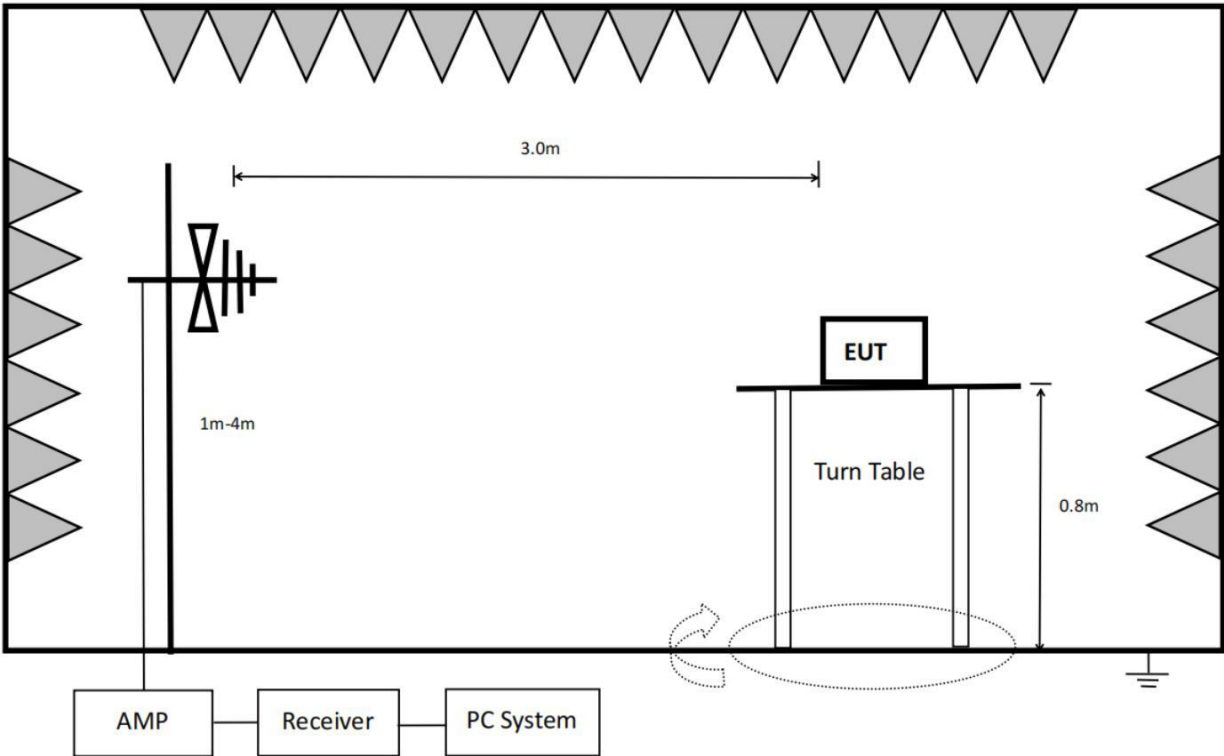
13. Radiated Emission

13.1. Block diagram of test setup

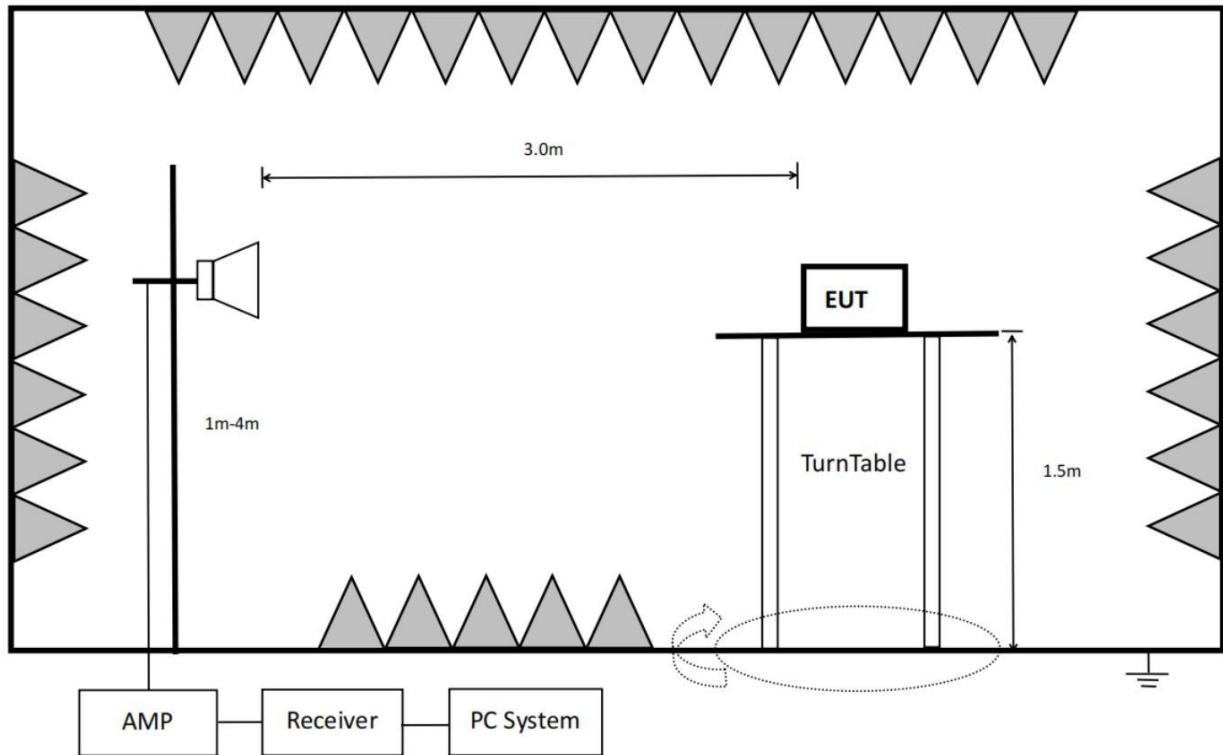
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test a band rejection filter was inserted in the input port of AMP.

13.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field strengths limit		
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$	$\mu\text{A}/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{kHz})$	$67.6-20\log(\text{F})$	$6.37/\text{F}$ (F in kHz)
0.490 ~ 1.705	30	$24000/\text{F}(\text{kHz})$	$87.6-20\log(\text{F})$	$63.7/\text{F}$ (F in kHz)
1.705 ~ 30.0	30	30	29.54	0.08
30 ~ 88	3	100	40.0	--
88 ~ 216	3	150	43.5	--
216 ~ 960	3	200	46.0	--
960 ~ 1000	3	500	54.0	--
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)		

Note: (1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

About Restricted bands of operation please refer to FCC § 15.205(a).

13.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	300 Hz (From 9 kHz to 0.15 MHz)/ 10 kHz (From 0.15 MHz to 30 MHz)
VBW	1 kHz (From 9 kHz to 0.15 MHz)/ 30 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW	100 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a band rejection filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.
7. Restriction band: Investigated frequency range from 2310 MHz to 2410 MHz and 2470MHz to 2500 MHz.

All restriction band should comply with 15.209 limits, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

13.4. Results

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 Limis.

Note 1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz, so the final test was performed with frequency range from 30 MHz to 26 GHz and recorded in below.

Note 2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in BLE_1M_2440 mode.

Note 3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Note 4: For emissions Above 18 GHz, the all the emission is ambient noise, so only show the worse case channel and recorded in report.

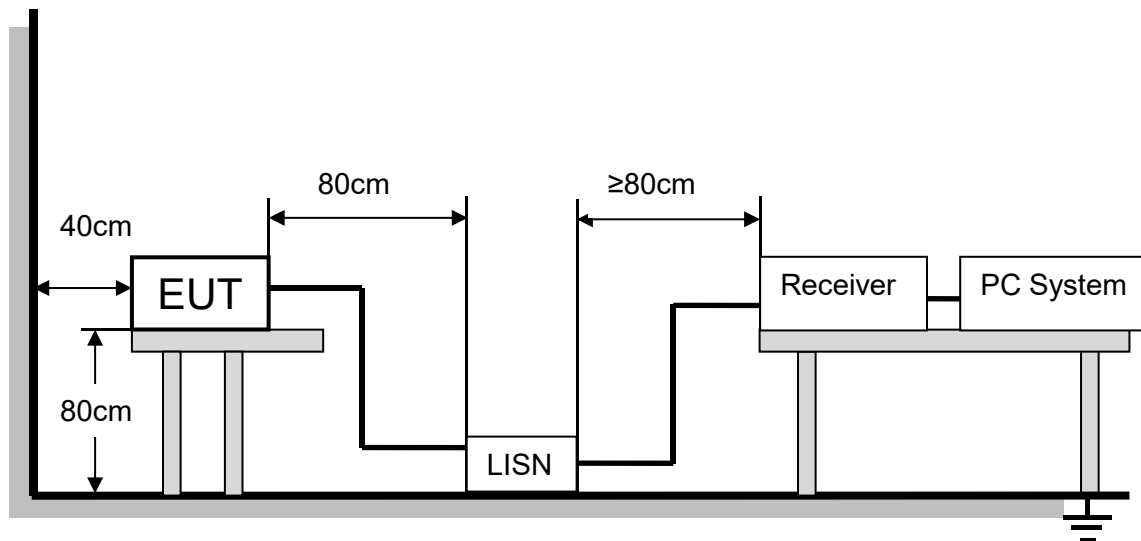
13.5. Original test data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B

14. AC Power Line Conducted Emissions

14.1. Block diagram of test setup



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

14.2. Limits

Please refer to CFR 47 FCC § 15.207 (a).

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

14.5. Original test data

AC Power Line Conducted Emission Test Data Refer to appendix C

15. Antenna Requirements

15.1. Limits

Please refer to FCC § 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. 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.

Please refer to FCC § 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

15.2. Result

The antenna used for this product is PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.53 dBi.

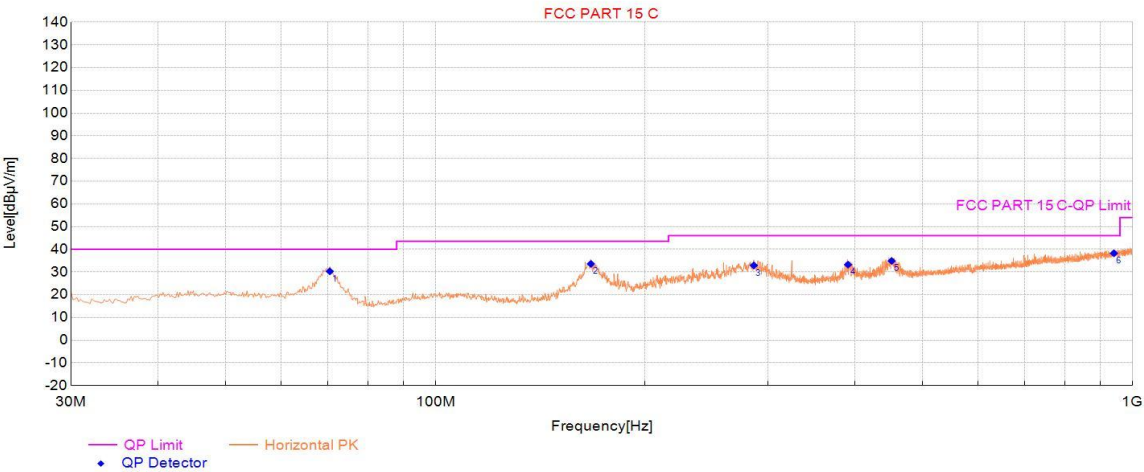
APPENDIX A – Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
EUT:	Wifi Module		
Customer:			
Model:	SI07F	SN:	
Mode:	BLE1M_2440	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-13 16:51:41

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading(dBµ V/m)	Factor (dB/m)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	70.554	13.94	16.36	30.30	40.00	9.70	100	173	Horizontal	PASS
2	167.185	16.5	17.09	33.59	43.50	9.91	100	101	Horizontal	PASS
3	286.325	10.6	22.31	32.91	46.00	13.09	100	101	Horizontal	PASS
4	390.912	7.82	25.43	33.25	46.00	12.75	100	137	Horizontal	PASS
5	451.452	8.39	26.50	34.89	46.00	11.11	100	29	Horizontal	PASS
6	941.012	2.77	35.49	38.26	46.00	7.74	100	29	Horizontal	PASS

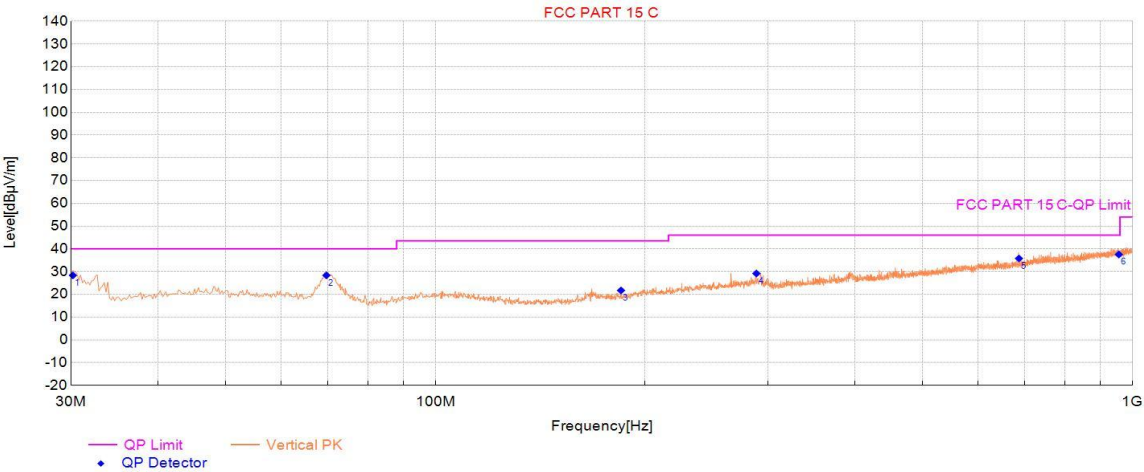
Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

Test Report

Project Information			
EUT:	Wifi Module		
Customer:			
Model:	SI07F	SN:	
Mode:	BLE1M_2440	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-13 16:52:27

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading(dBµ V/m)	Factor (dB/m)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	30.194	12.08	16.28	28.36	40.00	11.64	100	285	Vertical	PASS
2	69.778	11.79	16.57	28.36	40.00	11.64	100	302	Vertical	PASS
3	184.649	3.55	18.17	21.72	43.50	21.78	100	188	Vertical	PASS
4	288.848	6.81	22.37	29.18	46.00	16.82	100	126	Vertical	PASS
5	687.598	4.51	31.27	35.78	46.00	10.22	100	266	Vertical	PASS
6	956.341	1.81	35.73	37.54	46.00	8.46	100	5	Vertical	PASS

Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

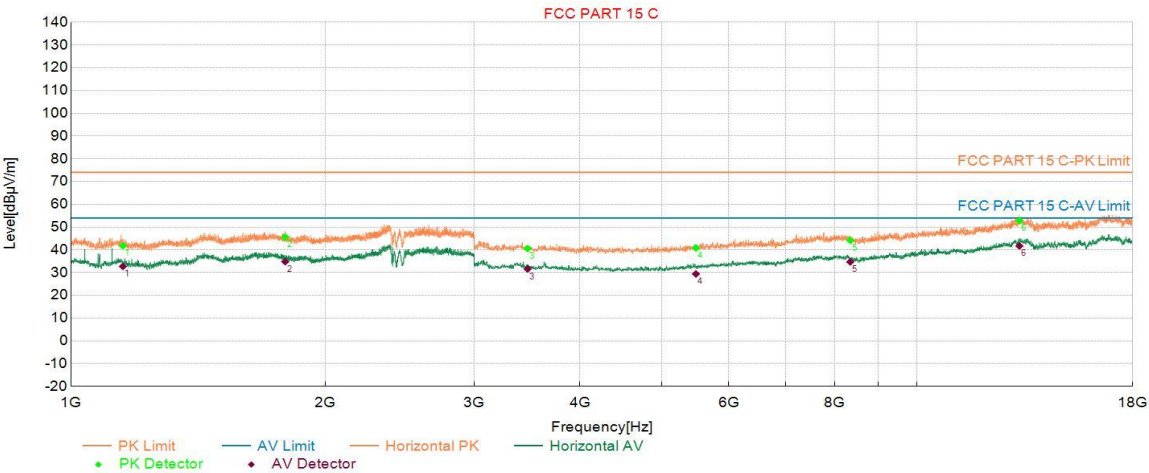
APPENDIX B – Radiated Emission Above 1GHz Test Data

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:08:03

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	PK Reading(dB µ V/m)	PK Value (dB µ V/m)	PK Limit (dB µ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1152.030	39.74	41.81	74.00	32.19	150	136	Horizontal
2	1792.158	39.5	45.60	74.00	28.40	150	318	Horizontal
3	3468.094	46.33	40.57	74.00	33.43	150	290	Horizontal
4	5484.497	42.42	40.84	74.00	33.16	150	13	Horizontal
5	8350.070	39.21	44.19	74.00	29.81	150	167	Horizontal
6	13235.047	36.48	52.79	74.00	21.21	150	62	Horizontal

AV Final Data List								
NO.	Freq. (MHz)	AV Reading(dB µ V/m)	AV Value (dB µ V/m)	AV Limit (dB µ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1152.030	30.66	32.73	54.00	21.27	150	136	Horizontal
2	1792.158	28.73	34.83	54.00	19.17	150	318	Horizontal
3	3468.094	37.36	31.60	54.00	22.40	150	290	Horizontal
4	5484.497	31.00	29.42	54.00	24.58	150	13	Horizontal
5	8350.070	29.73	34.71	54.00	19.29	150	167	Horizontal
6	13235.047	25.41	41.72	54.00	12.28	150	62	Horizontal

Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value

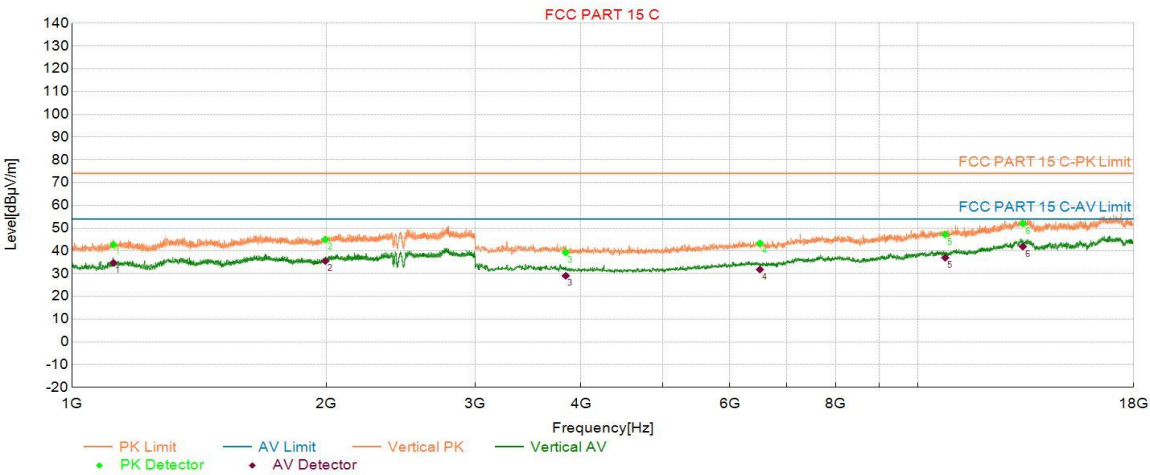
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:09:33

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1119.624	40.95	42.72	74.00	31.28	150	109	Vertical
2	1993.799	37.72	44.96	74.00	29.04	150	360	Vertical
3	3837.167	44.8	39.27	74.00	34.73	150	218	Vertical
4	6510.702	41.78	43.36	74.00	30.64	150	251	Vertical
5	10783.557	37.77	47.17	74.00	26.83	150	1	Vertical
6	13325.065	35.56	52.01	74.00	21.99	150	53	Vertical

AV Final Data List								
NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1119.624	32.98	34.75	54.00	19.25	150	109	Vertical
2	1993.799	28.28	35.52	54.00	18.48	150	360	Vertical
3	3837.167	34.56	29.03	54.00	24.97	150	218	Vertical
4	6510.702	30.20	31.78	54.00	22.22	150	251	Vertical
5	10783.557	27.57	36.97	54.00	17.03	150	1	Vertical
6	13325.065	25.43	41.88	54.00	12.12	150	53	Vertical

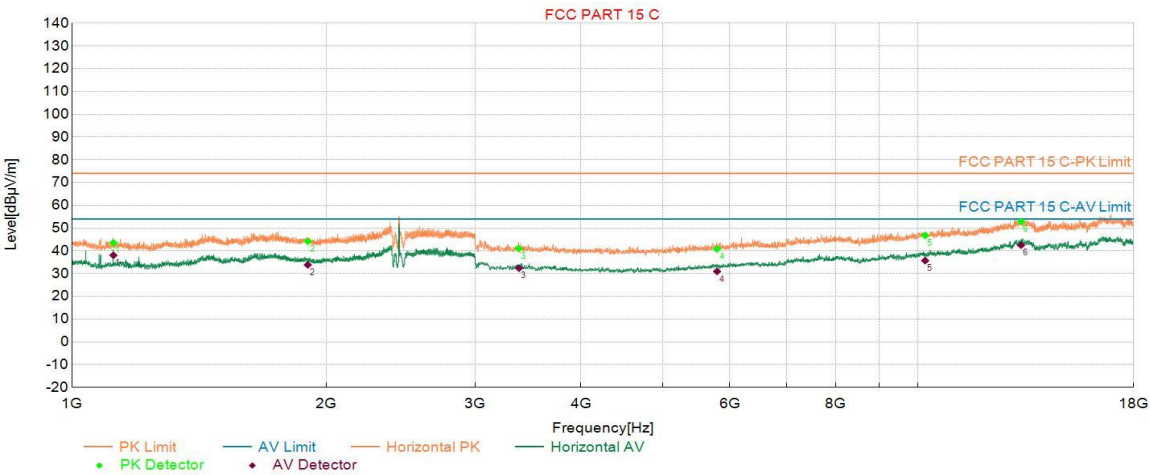
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:11:32

Test Graph



PK Final Data List

NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1119.624	41.75	43.52	74.00	30.48	150	287	Horizontal
2	1900.980	37.56	44.23	74.00	29.77	150	59	Horizontal
3	3378.076	46.99	41.02	74.00	32.98	150	208	Horizontal
4	5793.559	41.15	40.85	74.00	33.15	150	51	Horizontal
5	10210.442	38.43	46.78	74.00	27.22	150	167	Horizontal
6	13259.052	36.43	52.86	74.00	21.14	150	322	Horizontal

AV Final Data List

NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1119.624	36.28	38.05	54.00	15.95	150	287	Horizontal
2	1900.980	27.17	33.84	54.00	20.16	150	59	Horizontal
3	3378.076	38.36	32.39	54.00	21.61	150	208	Horizontal
4	5793.559	31.26	30.96	54.00	23.04	150	51	Horizontal
5	10210.442	27.37	35.72	54.00	18.28	150	167	Horizontal
6	13259.052	26.07	42.50	54.00	11.50	150	322	Horizontal

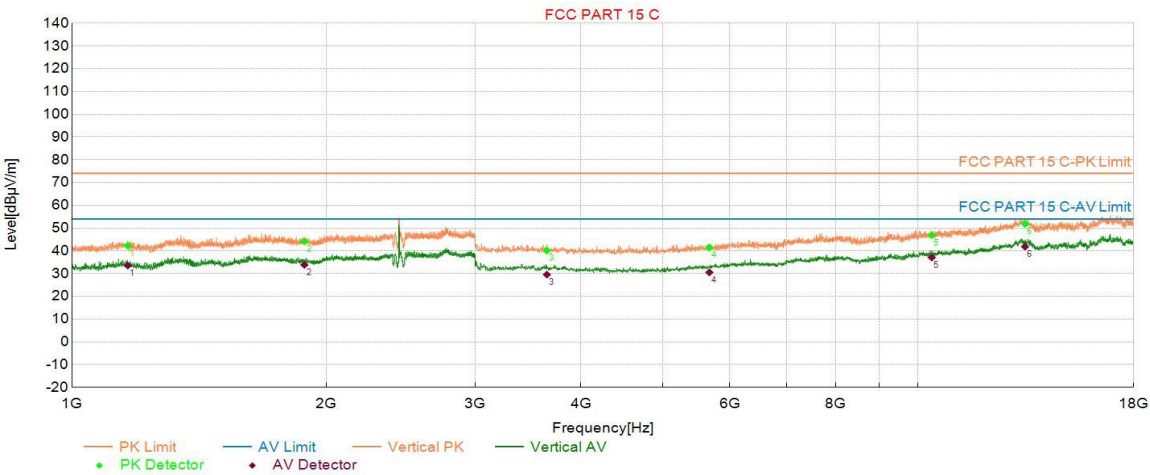
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:13:03

Test Graph



PK Final Data List

NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1164.433	40.07	42.26	74.00	31.74	150	111	Vertical
2	1882.977	37.55	44.15	74.00	29.85	150	142	Vertical
3	3645.129	45.64	40.12	74.00	33.88	150	32	Vertical
4	5673.535	42.29	41.40	74.00	32.60	150	2	Vertical
5	10396.479	38.19	46.87	74.00	27.13	150	198	Vertical
6	13403.081	35.9	51.87	74.00	22.13	150	248	Vertical

AV Final Data List

NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1164.433	31.35	33.54	54.00	20.46	150	111	Vertical
2	1882.977	27.24	33.84	54.00	20.16	150	142	Vertical
3	3645.129	35.08	29.56	54.00	24.44	150	32	Vertical
4	5673.535	31.44	30.55	54.00	23.45	150	2	Vertical
5	10396.479	28.41	37.09	54.00	16.91	150	198	Vertical
6	13403.081	25.88	41.85	54.00	12.15	150	248	Vertical

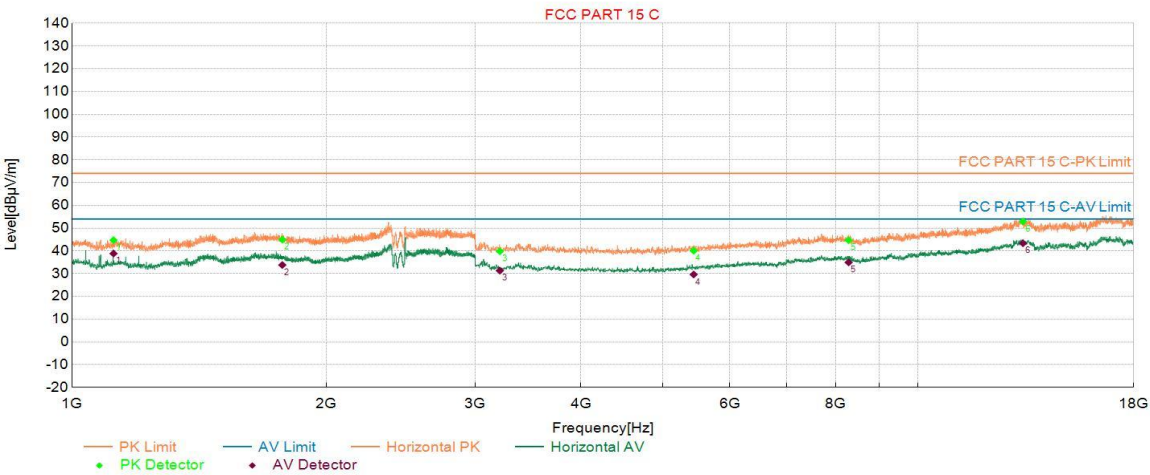
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:16:17

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1120.024	42.94	44.71	74.00	29.29	150	286	Horizontal
2	1773.355	39.12	44.95	74.00	29.05	150	315	Horizontal
3	3207.041	46.28	39.82	74.00	34.18	150	218	Horizontal
4	5436.487	41.85	40.08	74.00	33.92	150	4	Horizontal
5	8290.058	39.56	44.67	74.00	29.33	150	343	Horizontal
6	13328.066	36.52	52.95	74.00	21.05	150	93	Horizontal

AV Final Data List								
NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1120.024	37.05	38.82	54.00	15.18	150	286	Horizontal
2	1773.355	27.94	33.77	54.00	20.23	150	315	Horizontal
3	3207.041	37.76	31.30	54.00	22.70	150	218	Horizontal
4	5436.487	31.39	29.62	54.00	24.38	150	4	Horizontal
5	8290.058	29.82	34.93	54.00	19.07	150	343	Horizontal
6	13328.066	26.90	43.33	54.00	10.67	150	93	Horizontal

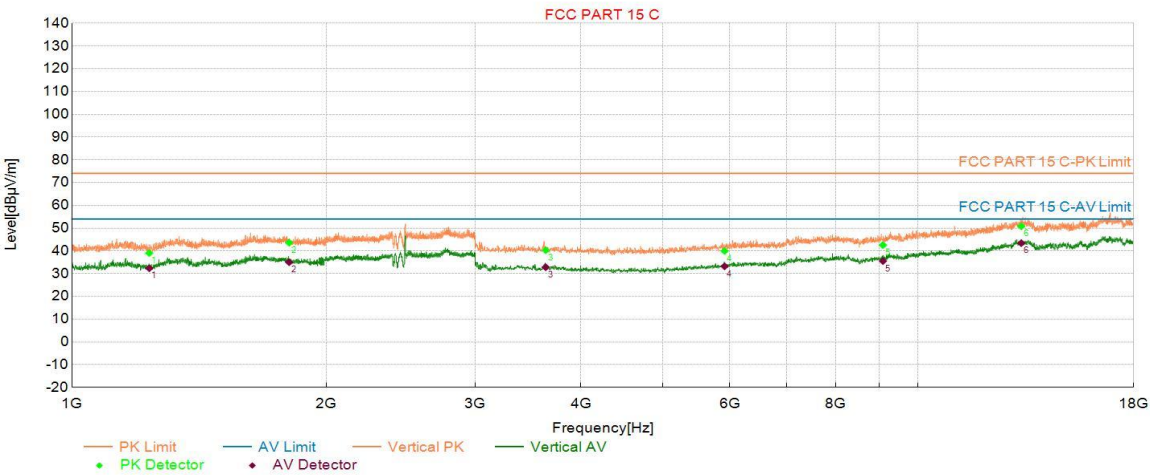
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:17:47

Test Graph



PK Final Data List

NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1234.447	36.44	39.03	74.00	34.97	150	111	Vertical
2	1806.561	37.35	43.60	74.00	30.40	150	132	Vertical
3	3633.127	45.82	40.28	74.00	33.72	150	64	Vertical
4	5913.583	40.08	39.94	74.00	34.06	150	43	Vertical
5	9103.221	36.27	42.54	74.00	31.46	150	136	Vertical
6	13265.053	34.35	50.80	74.00	23.20	150	14	Vertical

AV Final Data List

NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1234.447	29.75	32.34	54.00	21.66	150	111	Vertical
2	1806.561	28.74	34.99	54.00	19.01	150	132	Vertical
3	3633.127	38.34	32.80	54.00	21.20	150	64	Vertical
4	5913.583	33.35	33.21	54.00	20.79	150	43	Vertical
5	9103.221	29.23	35.50	54.00	18.50	150	136	Vertical
6	13265.053	26.95	43.40	54.00	10.60	150	14	Vertical

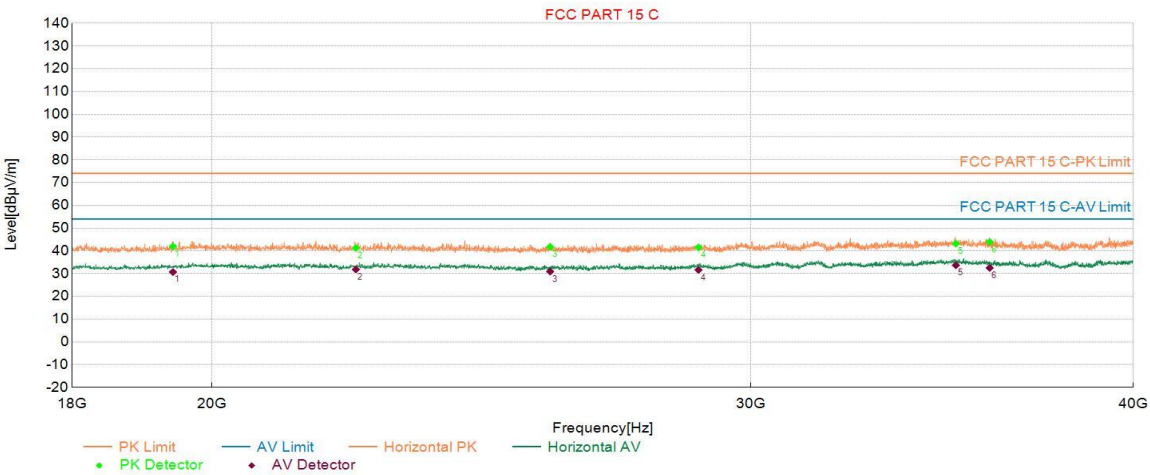
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:			
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 5V
Environment:	24.8℃/50%	Engineer:	
Remark:			

Start of Test:2026-03-22 19:23:03

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	19421.484	38.85	41.98	74.00	32.02	150	280	Horizontal
2	22286.457	35.44	41.27	74.00	32.73	150	60	Horizontal
3	25793.959	36.24	41.73	74.00	32.27	150	280	Horizontal
4	28839.368	35.08	41.51	74.00	32.49	150	160	Horizontal
5	35000.600	32.15	43.15	74.00	30.85	150	350	Horizontal
6	35902.781	33.04	43.93	74.00	30.07	150	170	Horizontal

AV Final Data List								
NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	19421.484	27.57	30.70	54.00	23.30	150	280	Horizontal
2	22286.457	26.01	31.84	54.00	22.16	150	60	Horizontal
3	25793.959	25.42	30.91	54.00	23.09	150	280	Horizontal
4	28839.368	25.19	31.62	54.00	22.38	150	160	Horizontal
5	35000.600	22.65	33.65	54.00	20.35	150	350	Horizontal
6	35902.781	21.62	32.51	54.00	21.49	150	170	Horizontal

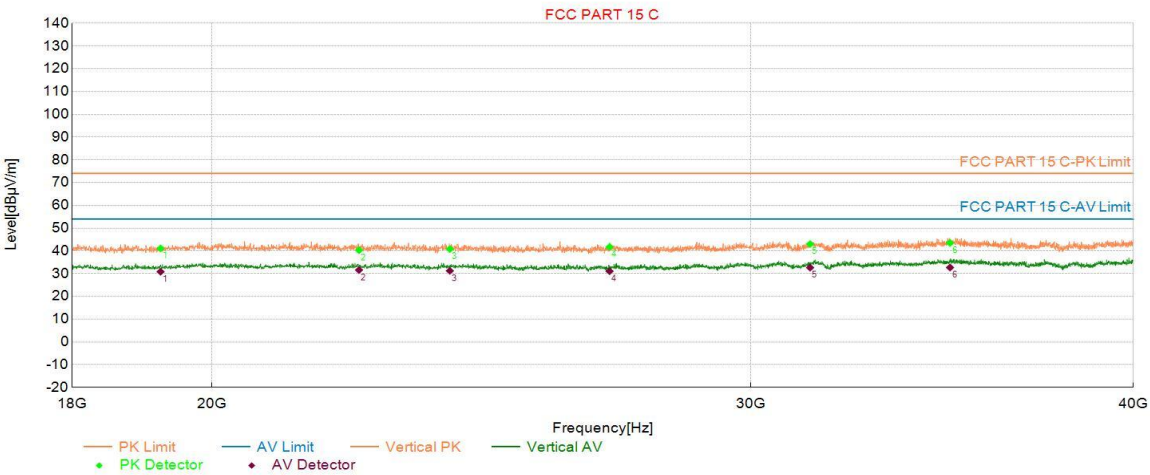
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:			
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 5V
Environment:	24.8℃/50%	Engineer:	
Remark:			

Start of Test:2026-03-22 19:23:21

Test Graph



PK Final Data List

NO.	Freq. (MHz)	PK Reading(dB μ V/m)	PK Value (dB μ V/m)	PK Limit (dB μ V/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	19241.048	38.21	41.07	74.00	32.93	150	290	Vertical
2	22339.268	34.36	40.30	74.00	33.70	150	70	Vertical
3	23919.184	33.28	40.82	74.00	33.18	150	350	Vertical
4	26973.395	38.29	41.71	74.00	32.29	150	190	Vertical
5	31365.473	33.02	43.00	74.00	31.00	150	140	Vertical
6	34846.569	32.68	43.48	74.00	30.52	150	0	Vertical

AV Final Data List

NO.	Freq. (MHz)	AV Reading(dB μ V/m)	AV Value (dB μ V/m)	AV Limit (dB μ V/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	19241.048	27.98	30.84	54.00	23.16	150	290	Vertical
2	22339.268	25.65	31.59	54.00	22.41	150	70	Vertical
3	23919.184	23.68	31.22	54.00	22.78	150	350	Vertical
4	26973.395	27.65	31.07	54.00	22.93	150	190	Vertical
5	31365.473	22.66	32.64	54.00	21.36	150	140	Vertical
6	34846.569	21.88	32.68	54.00	21.32	150	0	Vertical

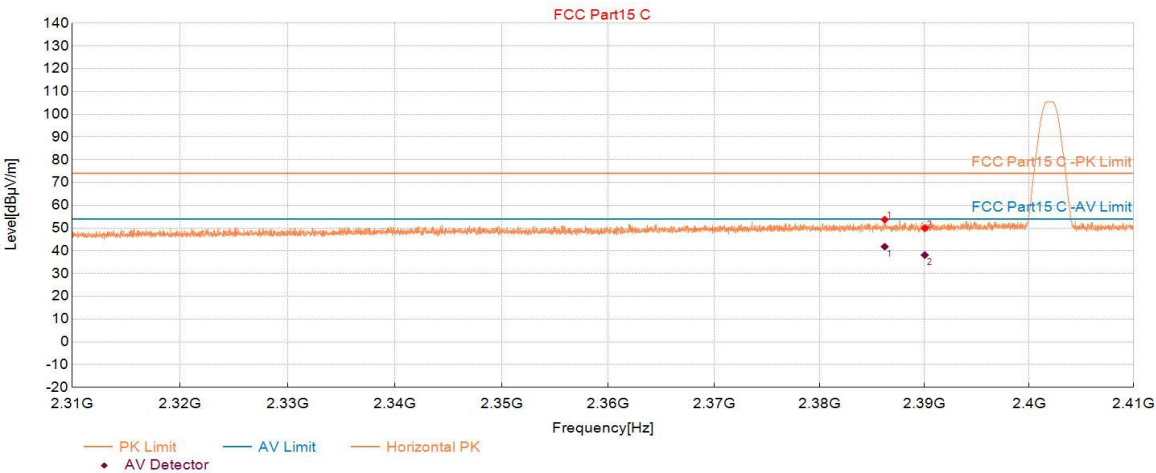
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:22:00

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBμV/m)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2386.195	45.40	53.74	8.34	74.00	20.26	150	61	Horizontal
2	2390.016	41.55	49.91	8.36	74.00	24.09	150	61	Horizontal

AV Final Data List

NO.	Freq. (MHz)	Reading(dBμV/m)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2386.195	33.5	8.34	41.84	54.00	12.16	150	61	Horizontal
2	2390.016	29.78	8.36	38.14	54.00	15.86	150	61	Horizontal

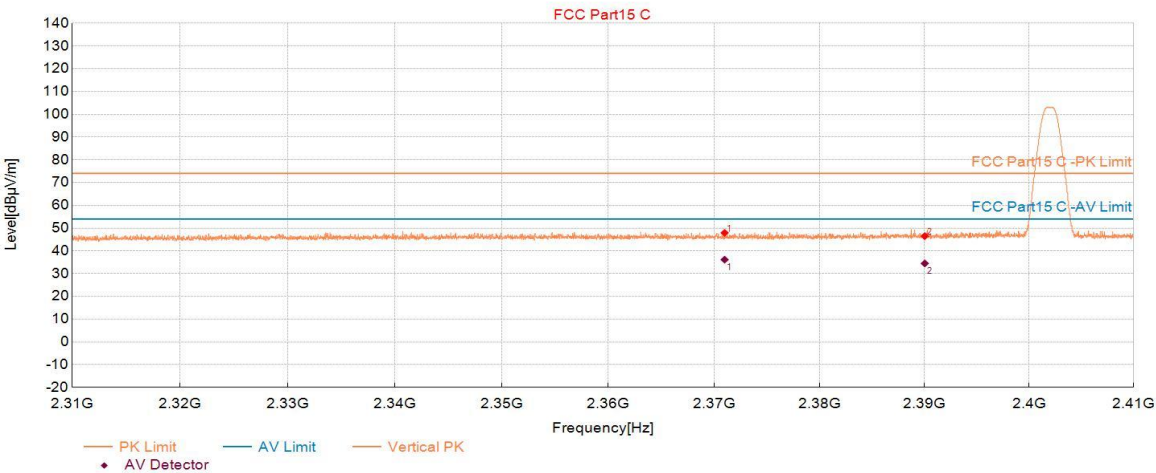
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:22:46

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBµV/m)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2370.992	39.66	47.91	8.25	74.00	26.09	150	334	Vertical
2	2390.016	38.12	46.48	8.36	74.00	27.95	150	334	Vertical

AV Final Data List

NO.	Freq. (MHz)	Reading(dBµV/m)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2370.992	27.89	8.25	36.14	54.00	17.86	150	334	Vertical
2	2390.016	26.11	8.36	34.47	54.00	19.53	150	334	Vertical

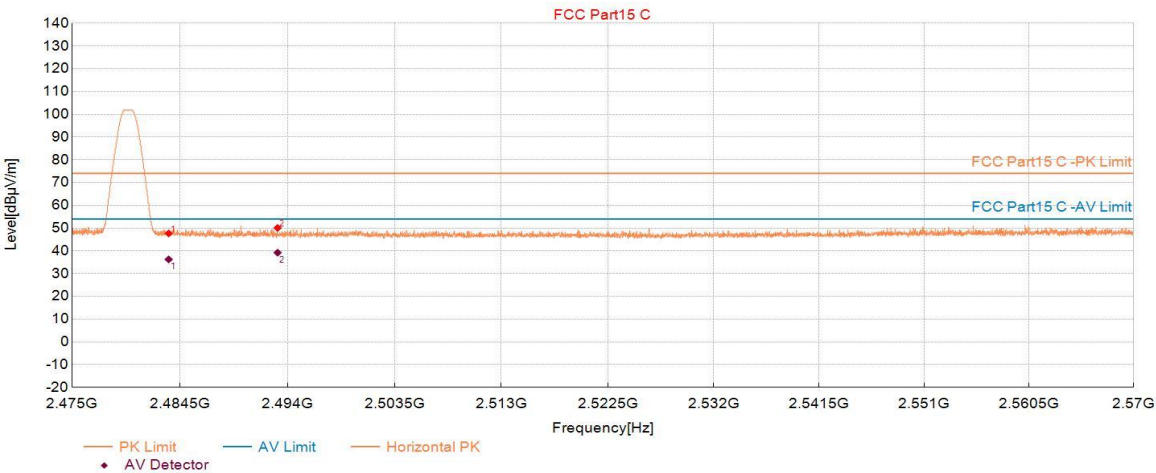
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:25:12

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBμV/m)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	38.98	47.66	8.68	74.00	26.34	150	52	Horizontal
2	2493.130	41.36	50.07	8.71	74.00	23.93	150	139	Horizontal

AV Final Data List

NO.	Freq. (MHz)	Reading(dBμV/m)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	27.56	8.68	36.24	54.00	17.76	150	52	Horizontal
2	2493.130	30.49	8.71	39.20	54.00	14.80	150	139	Horizontal

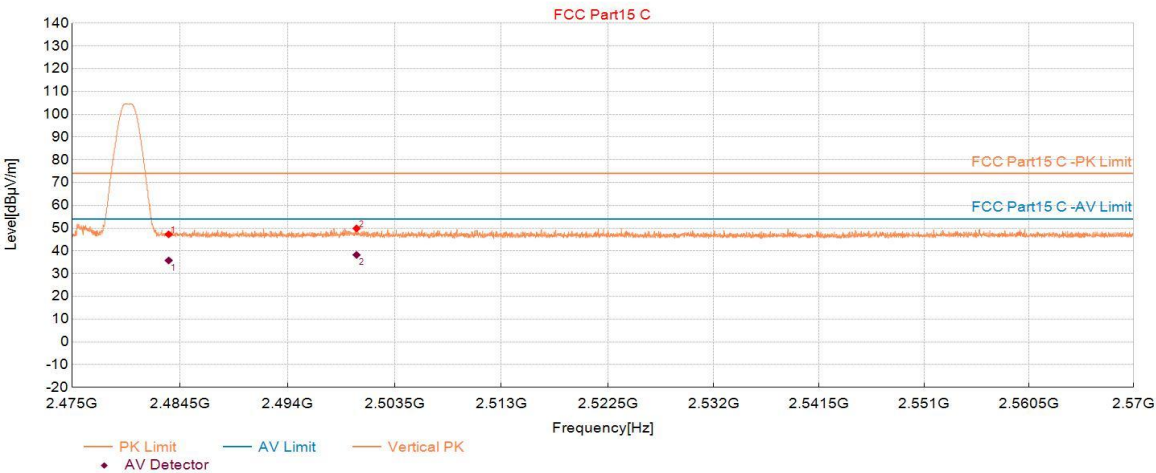
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:25:57

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBµV/m)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	38.57	47.25	8.68	74.00	26.75	150	67	Vertical
2	2500.123	41.13	49.87	8.74	74.00	24.13	150	67	Vertical

AV Final Data List

NO.	Freq. (MHz)	Reading(dBµV/m)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	27.11	8.68	35.79	54.00	18.21	150	67	Vertical
2	2500.123	29.48	8.74	38.22	54.00	15.78	150	67	Vertical

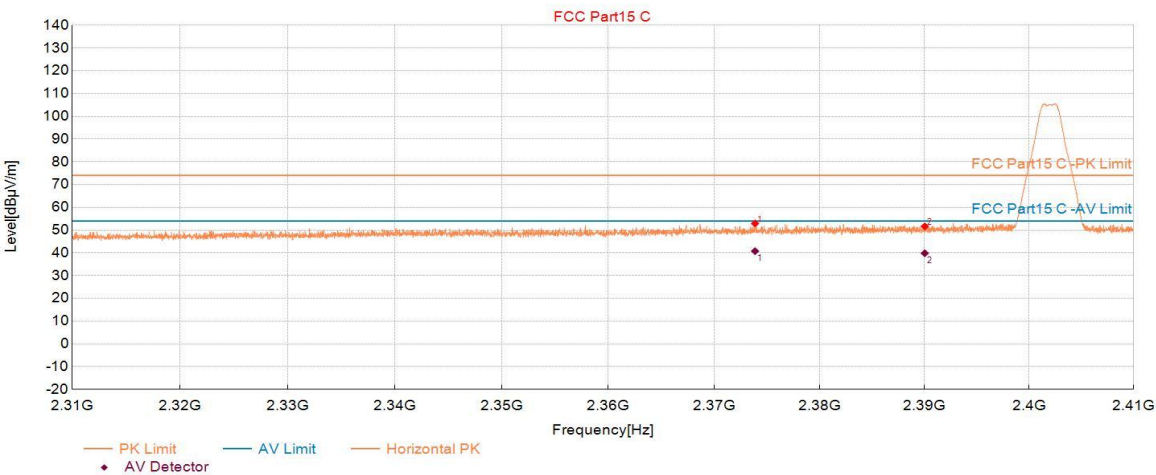
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_2M_2402	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:27:38

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBµV/m)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2373.873	44.64	52.91	8.27	74.00	21.09	150	58	Horizontal
2	2390.016	43.28	51.64	8.36	74.00	22.36	150	58	Horizontal

AV Final Data List

NO.	Freq. (MHz)	Reading(dBµV/m)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2373.873	32.48	8.27	40.75	54.00	13.25	150	58	Horizontal
2	2390.016	31.47	8.36	39.83	54.00	14.17	150	58	Horizontal

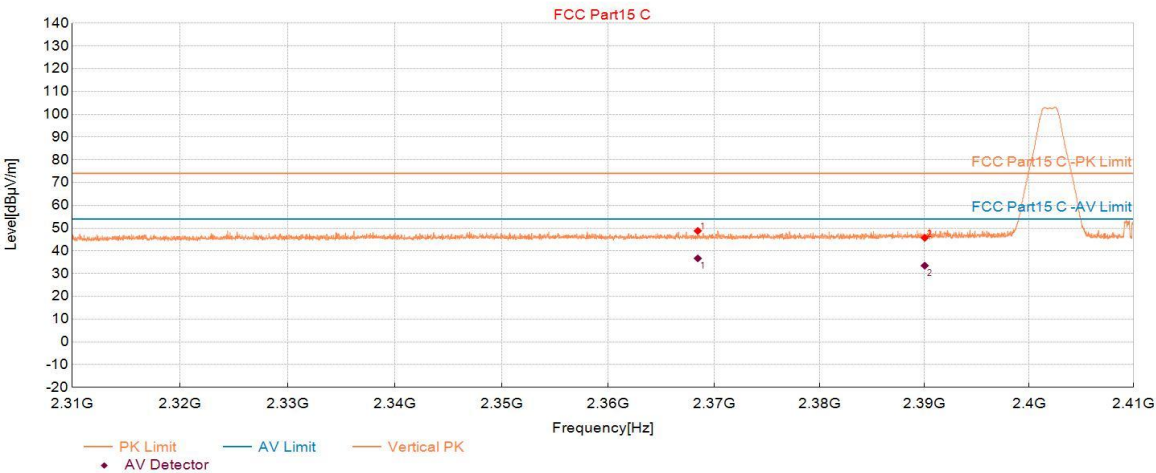
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_2M_2402	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:28:25

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBµV/m)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2368.452	40.54	48.78	8.24	74.00	25.22	150	59	Vertical
2	2390.016	37.36	45.72	8.36	74.00	28.28	150	167	Vertical

AV Final Data List

NO.	Freq. (MHz)	Reading(dBµV/m)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2368.452	28.45	8.24	36.69	54.00	17.31	150	59	Vertical
2	2390.016	25.14	8.36	33.50	54.00	20.50	150	167	Vertical

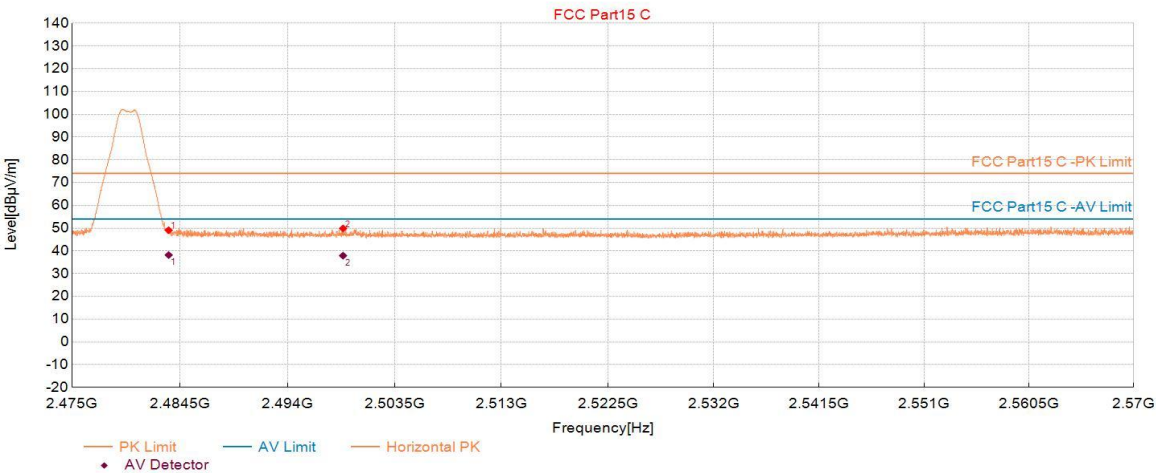
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_2M_2480	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:31:53

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Reading(dBµV/m)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	40.39	49.07	8.68	74.00	24.93	150	52	Horizontal
2	2498.926	41.11	49.85	8.74	74.00	24.15	150	42	Horizontal

AV Final Data List

NO.	Freq. (MHz)	Reading(dBµV/m)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	29.48	8.68	38.16	54.00	15.84	150	52	Horizontal
2	2498.926	29.15	8.74	37.89	54.00	16.11	150	42	Horizontal

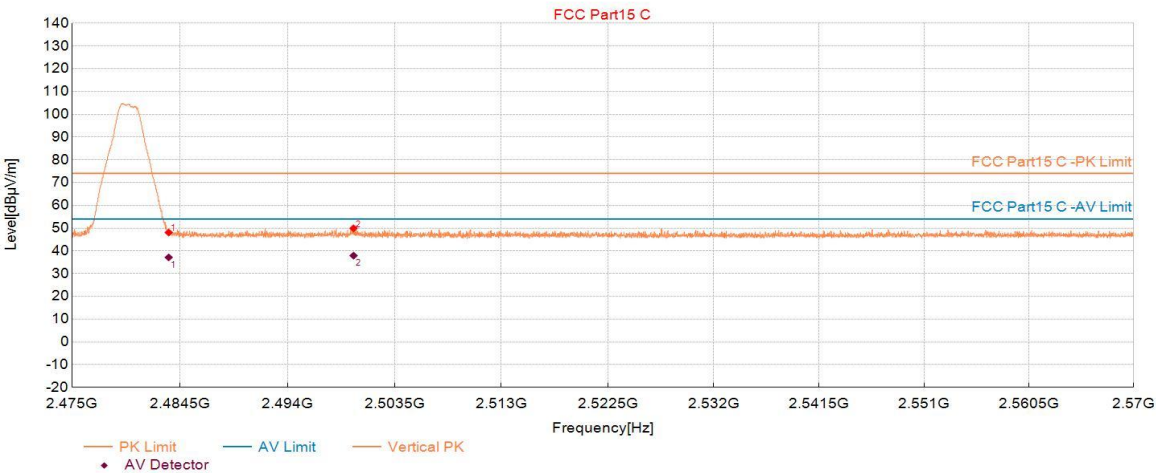
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	BLE_2M_2480	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-22 16:32:39

Test Graph



Suspected Data List

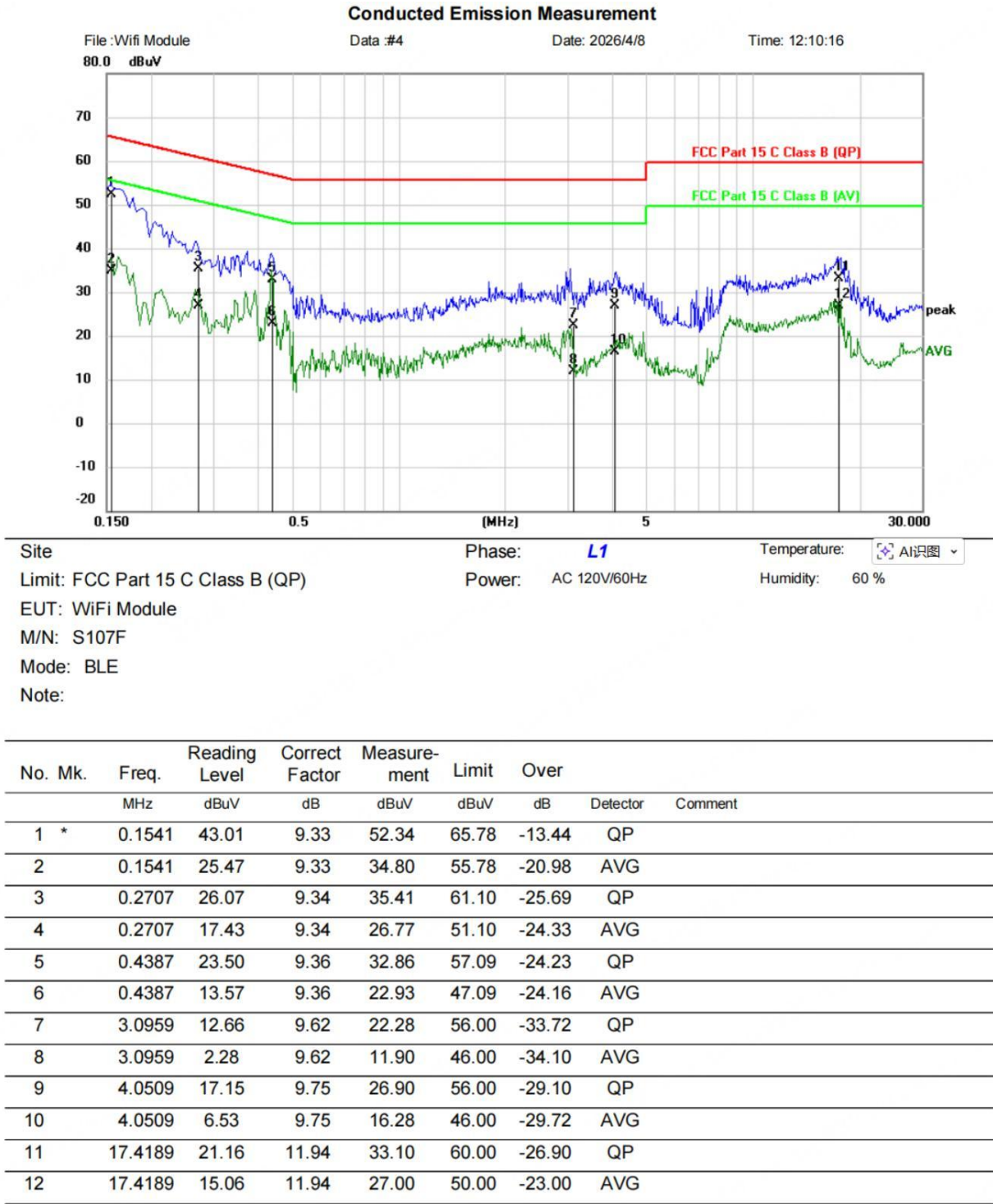
NO.	Frequency (MHz)	Reading(dBµV/m)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	39.38	48.06	8.68	74.00	25.94	150	59	Vertical
2	2499.857	41.16	49.90	8.74	74.00	24.10	150	79	Vertical

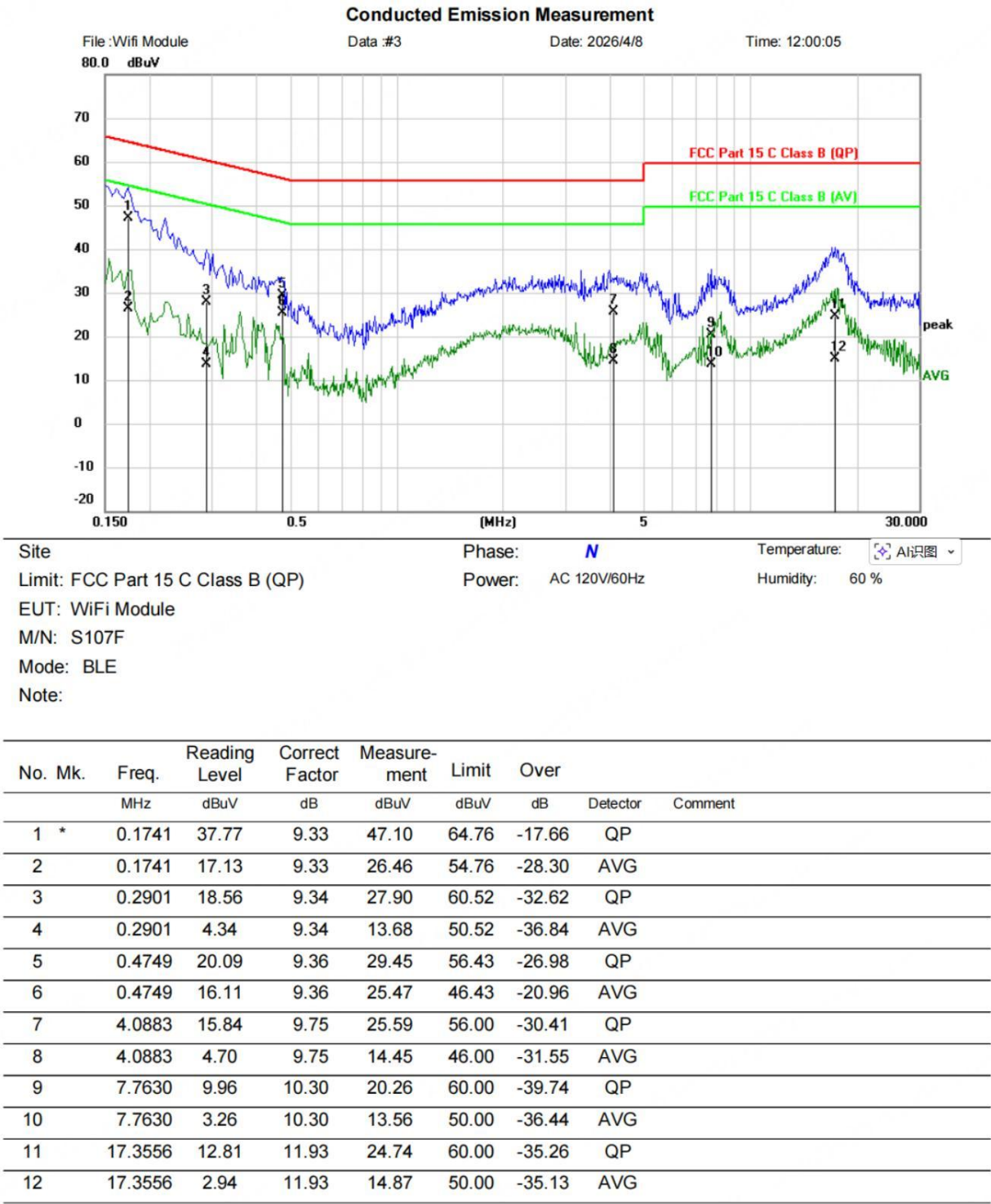
AV Final Data List

NO.	Freq. (MHz)	Reading(dBµV/m)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.514	28.45	8.68	37.13	54.00	16.87	150	59	Vertical
2	2499.857	29.17	8.74	37.91	54.00	16.09	150	79	Vertical

Note1: Level=Reading+Factor, Margin=Limit - Level

APPENDIX C – AC Power Line Conducted Emission Test Data





END OF REPORT