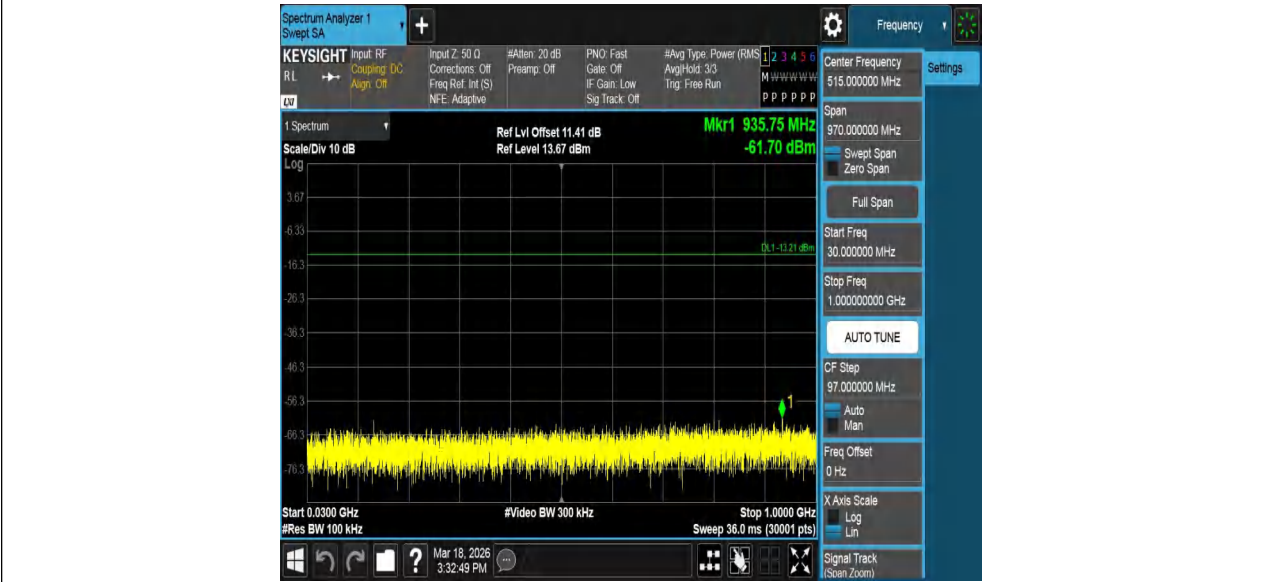




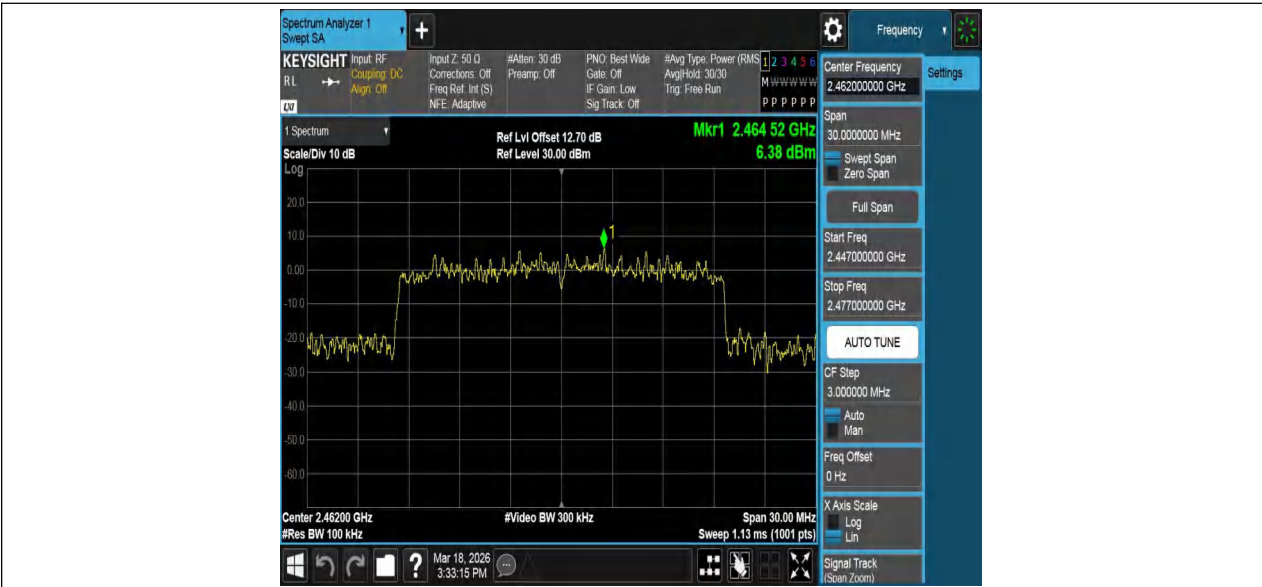
11BE20MIMO_Ant1_2462_30~1000



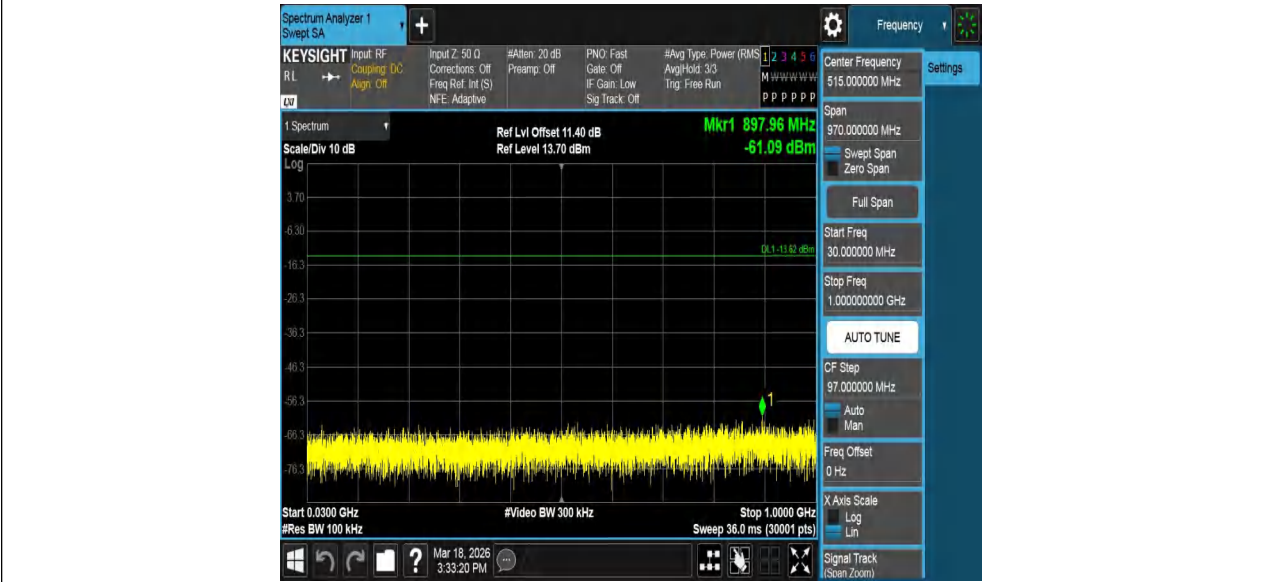
11BE20MIMO_Ant1_2462_1000~26500



11BE20MIMO_Ant2_2462_0~Reference



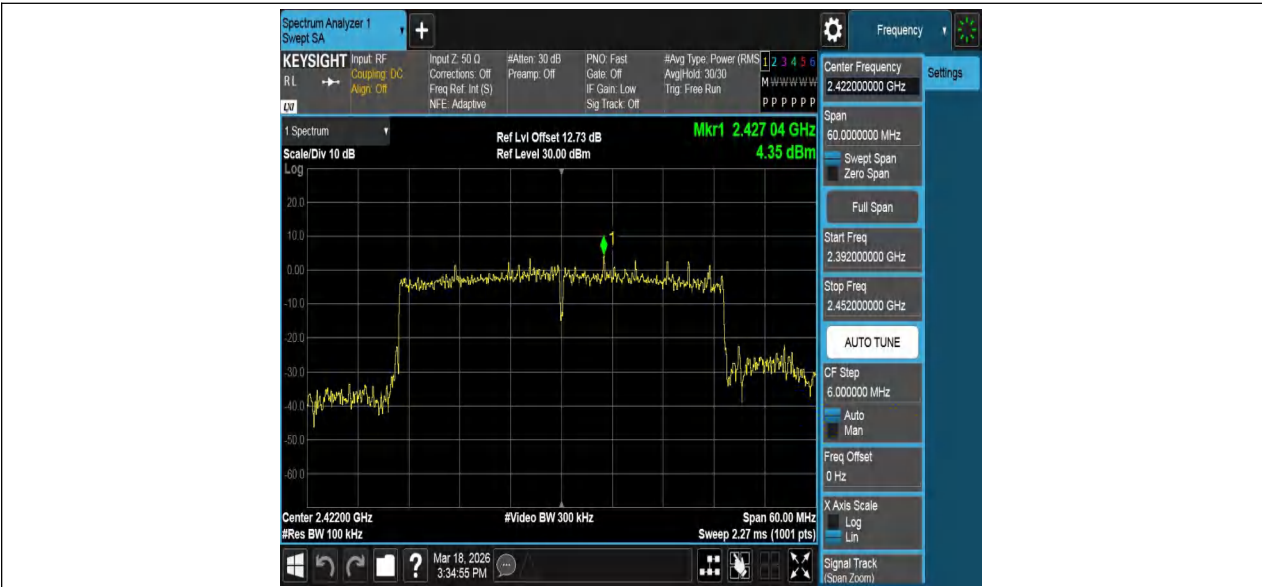
11BE20MIMO_Ant2_2462_30~1000



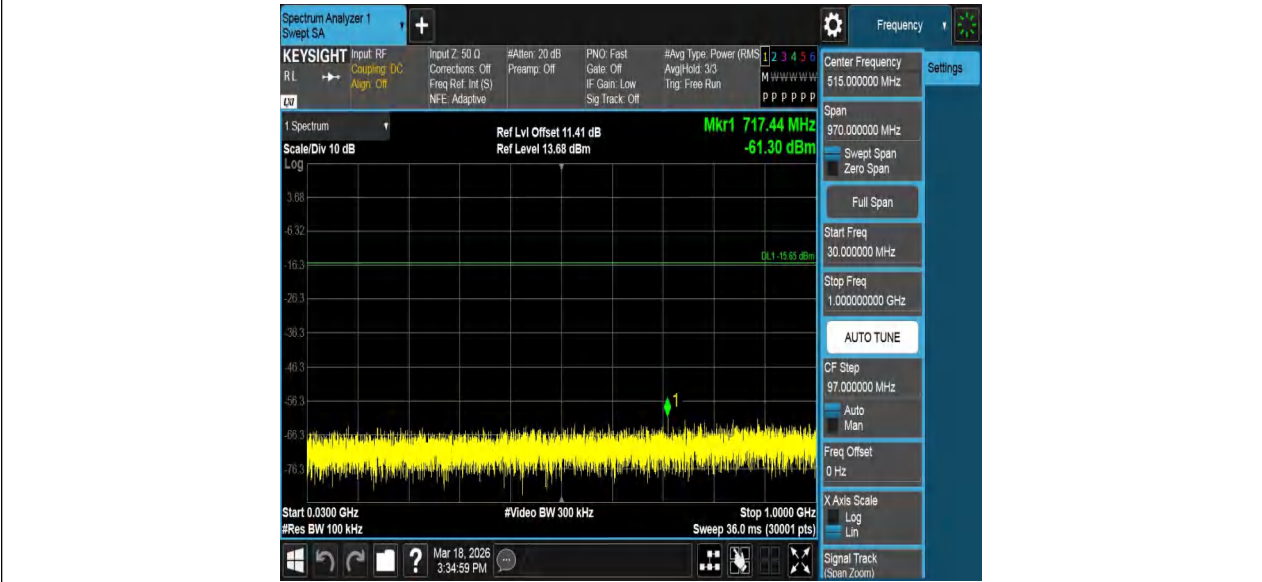
11BE20MIMO_Ant2_2462_1000~26500



11BE40MIMO_Ant1_2422_0~Reference



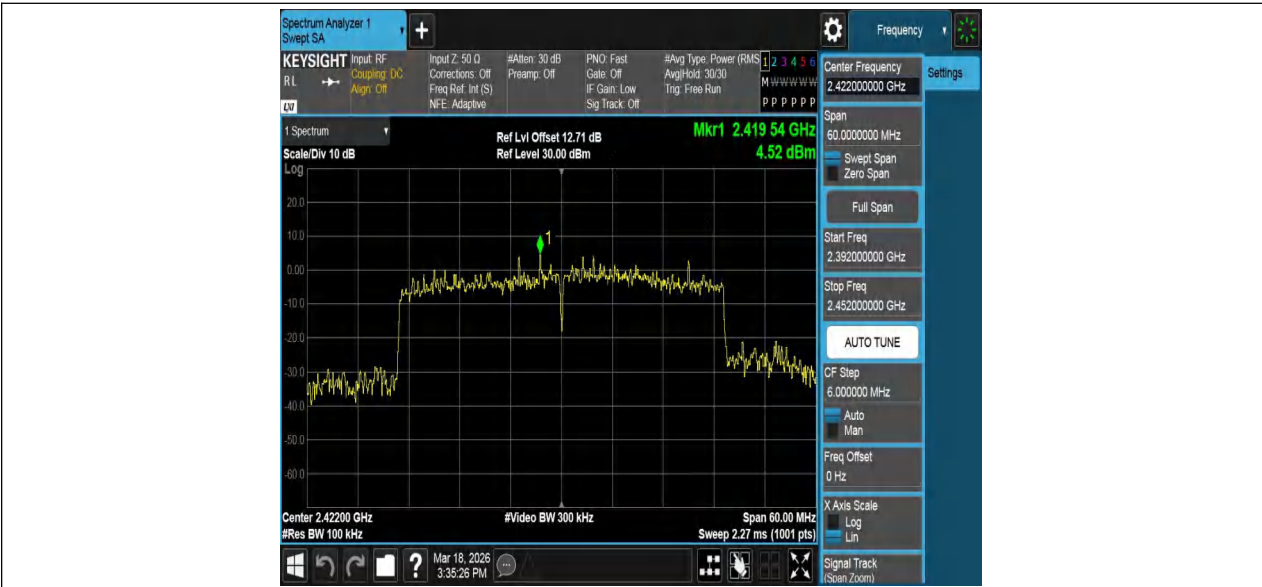
11BE40MIMO_Ant1_2422_30~1000



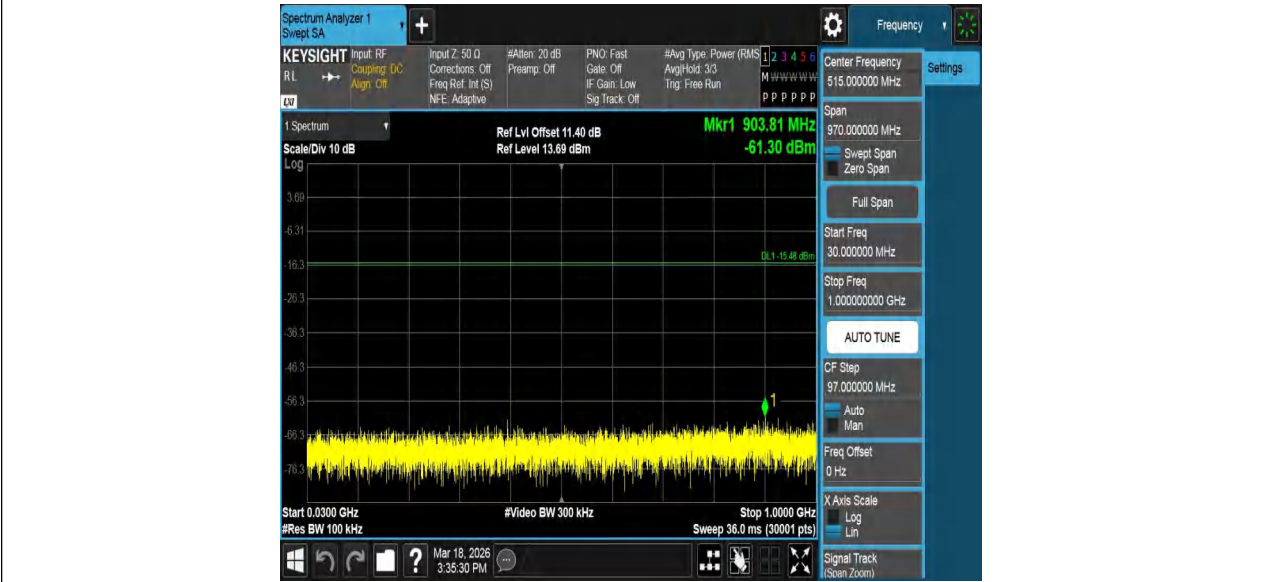
11BE40MIMO_Ant1_2422_1000~26500



11BE40MIMO_Ant2_2422_0~Reference



11BE40MIMO_Ant2_2422_30~1000

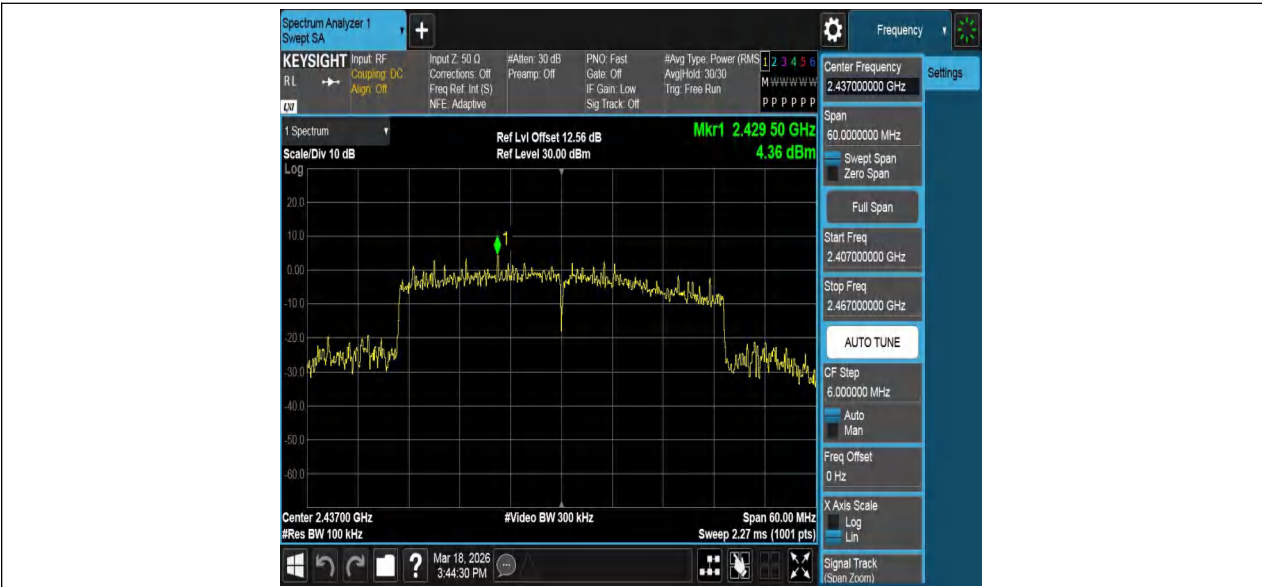


11BE40MIMO_Ant2_2422_1000~26500



11BE40MIMO_Ant1_2437_0~Reference





11BE40MIMO_Ant2_2437_30~1000



11BE40MIMO_Ant2_2437_1000~26500



11BE40MIMO_Ant1_2452_0~Reference



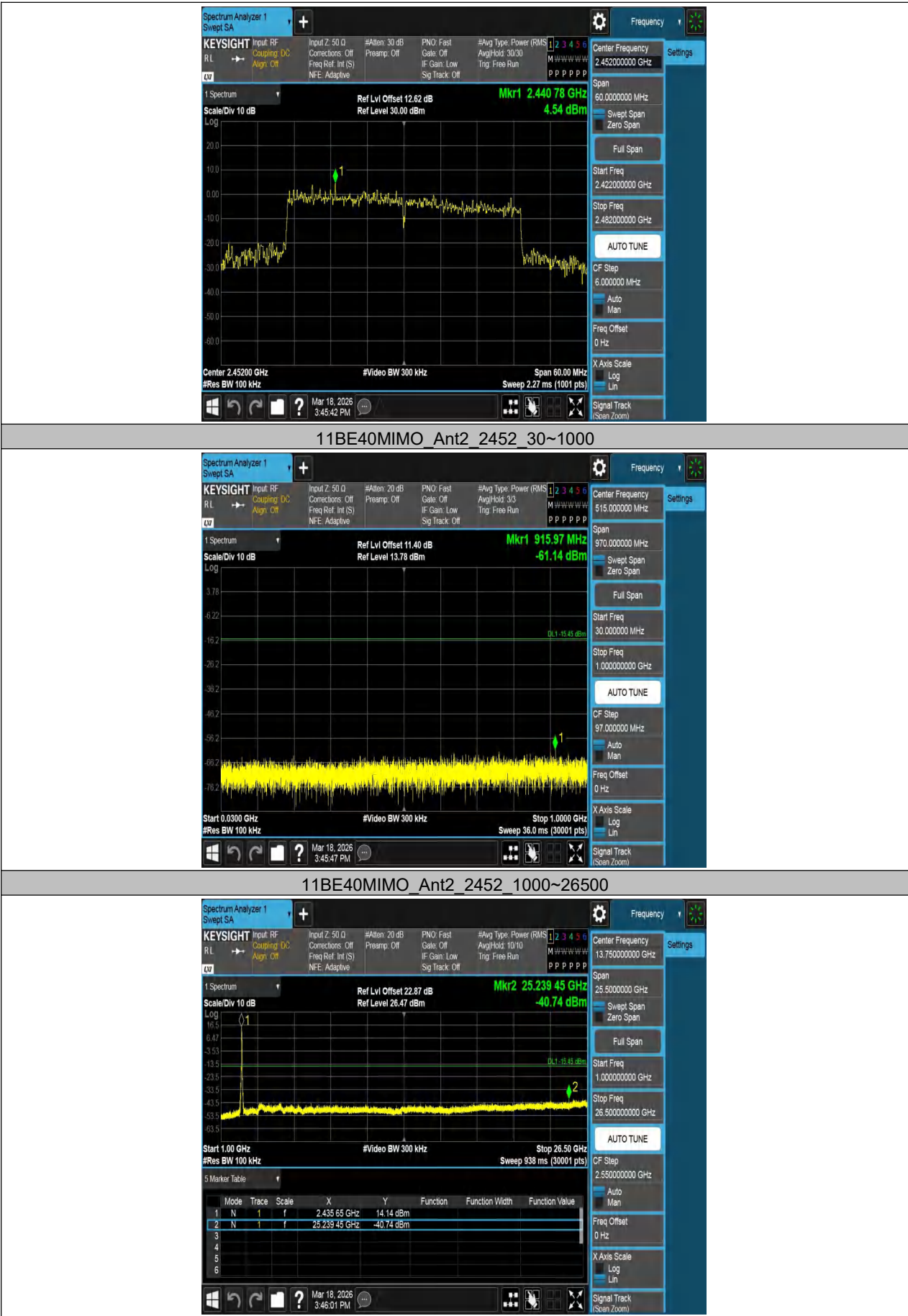
11BE40MIMO_Ant1_2452_30~1000



11BE40MIMO_Ant1_2452_1000~26500



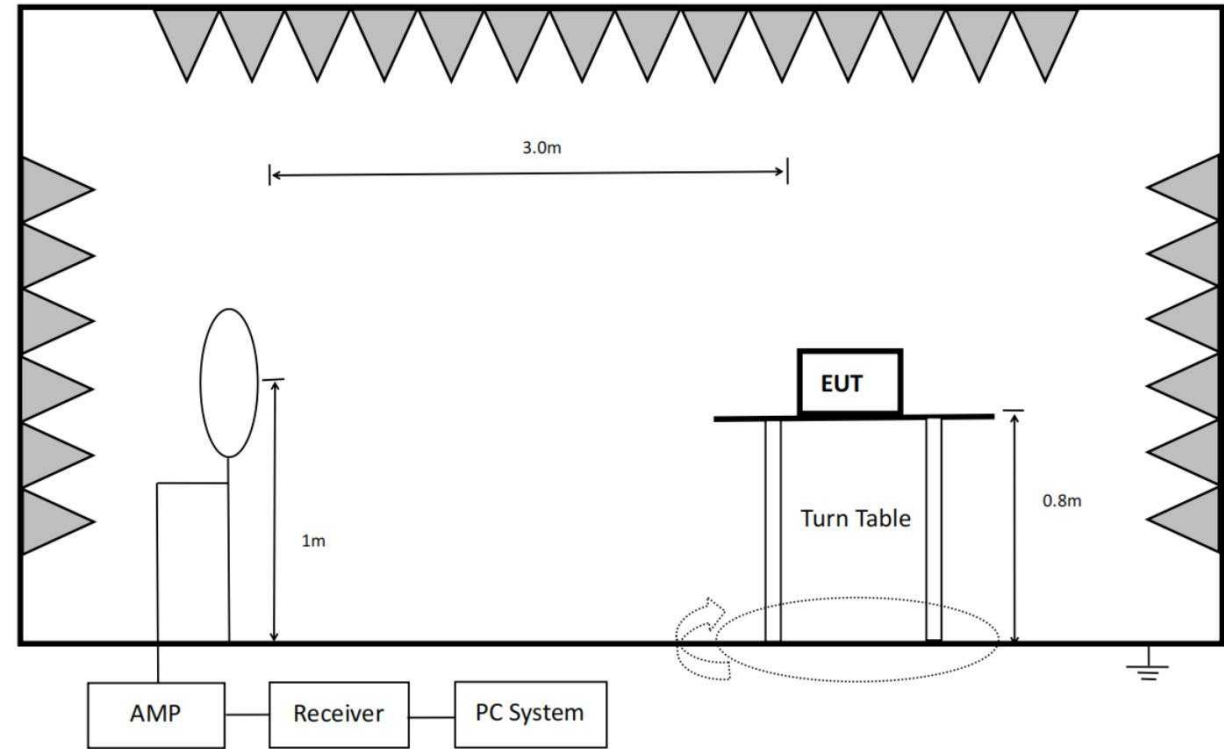
11BE40MIMO Ant2 2452 0~Reference



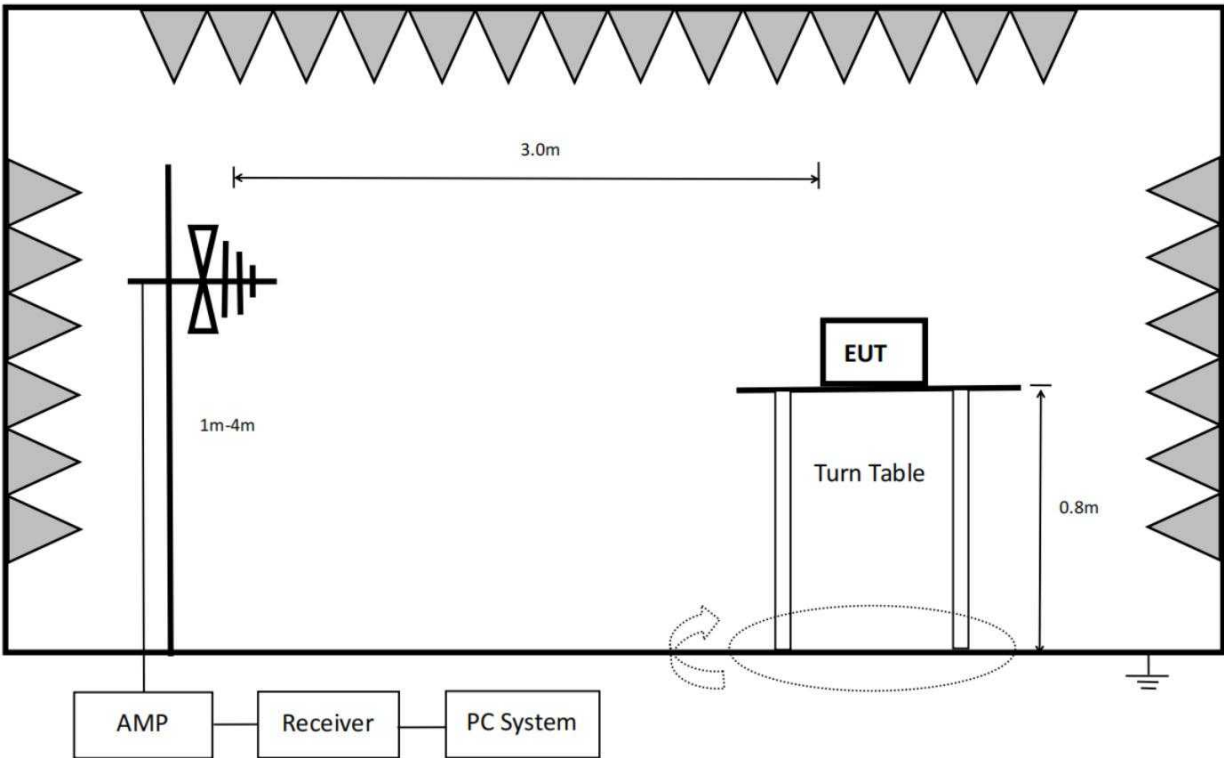
13. Radiated Emission

13.1. Block diagram of test setup

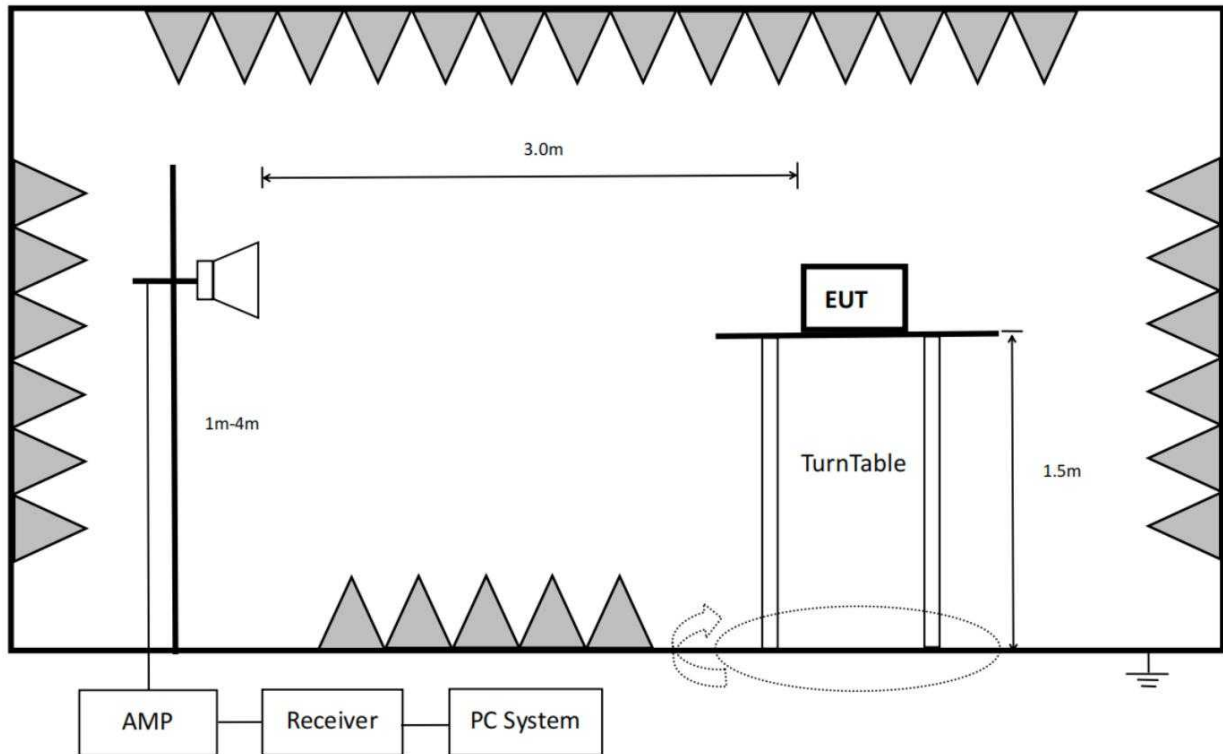
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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 2430 MHz and 2445 MHz to 2500 MHz, 2310 MHz to 2450 MHz and 2425 MHz to 2500MHz.

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 ANT1+ ANT2, 11n HT20, Tx CH11 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.

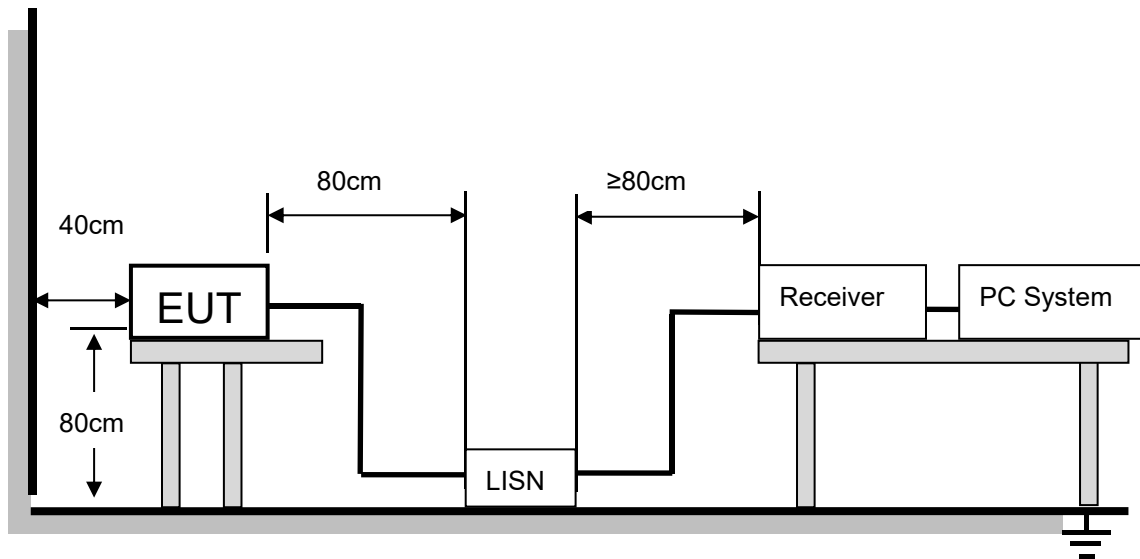
13.5. Original test data

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. Applicable Requirements

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 device support 2T2R MIMO, the antennas both used for this product are dedicated PCB antennas and other than that furnished by the responsible party shall be used with the device, maximum antenna gain is 1.36 dBi for antenna 1, 2.40 dBi for antenna 2.

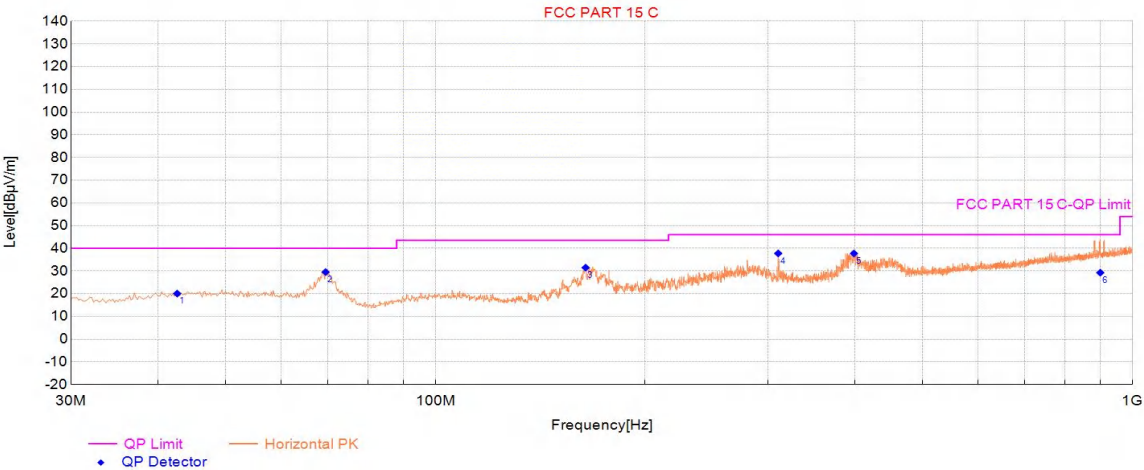
APPENDIX A – Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
EUT:	Wifi Module		
Customer:			
Model:	SI07F	SN:	
Mode:	11AX20 MCS0 2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-13 10:40:07

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	42.613	0.31	19.76	20.07	40.00	19.93	100	69	Horizontal	PASS
2	69.584	12.93	16.62	29.55	40.00	10.45	100	359	Horizontal	PASS
3	164.275	14.54	16.95	31.49	43.50	12.01	100	69	Horizontal	PASS
4	310.386	14.76	23.00	37.76	46.00	8.24	100	264	Horizontal	PASS
5	398.674	12.18	25.55	37.73	46.00	8.27	100	309	Horizontal	PASS
6	899.482	-5.83	35.10	29.27	46.00	16.73	175.9	135	Horizontal	PASS

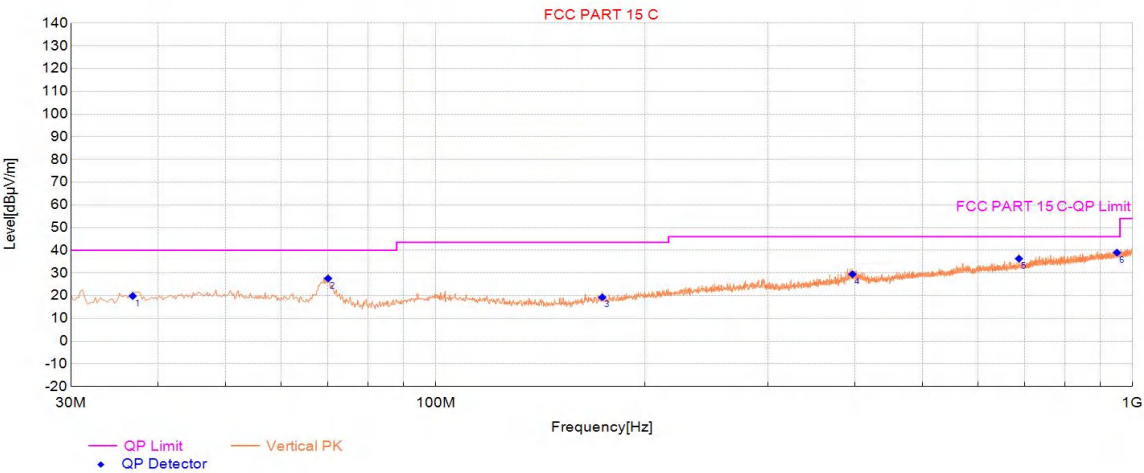
Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

Test Report

Project Information			
EUT:	Wifi Module		
Customer:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-13 10:40:53

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	36.791	2.15	17.71	19.86	40.00	20.14	100	259	Vertical	PASS
2	70.166	11.13	16.46	27.59	40.00	12.41	100	100	Vertical	PASS
3	173.589	1.91	17.42	19.33	43.50	24.17	100	100	Vertical	PASS
4	396.733	3.95	25.52	29.47	46.00	16.53	100	187	Vertical	PASS
5	687.598	5.05	31.27	36.32	46.00	9.68	100	233	Vertical	PASS
6	950.520	3.34	35.63	38.97	46.00	7.03	100	55	Vertical	PASS

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

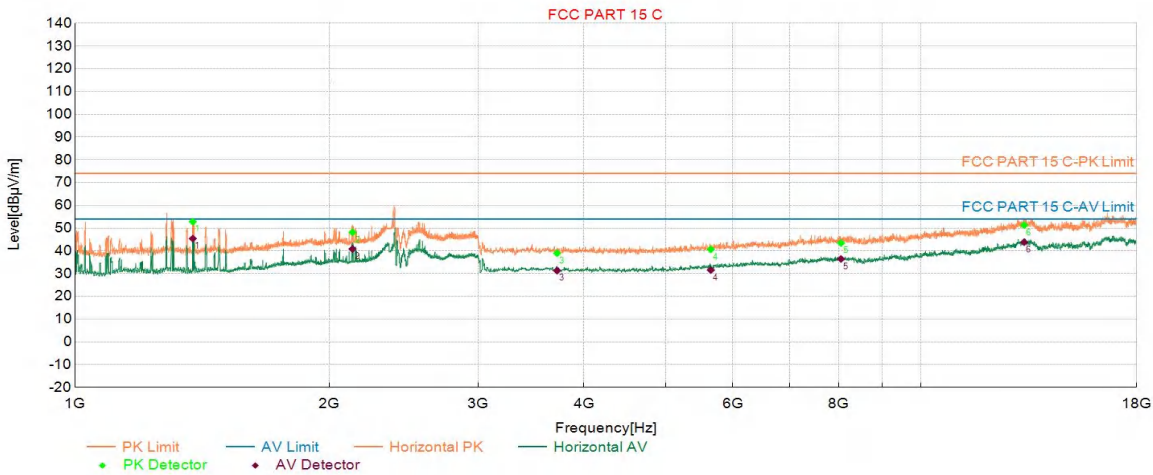
APPENDIX B – Radiated Emission Above 1GHz Test Data

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-21 21:44:28

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	1378.476	50.13	52.82	74.00	21.18	150	201	Horizontal
2	2129.426	40.71	48.16	74.00	25.84	150	142	Horizontal
3	3717.143	44.42	38.95	74.00	35.05	150	2	Horizontal
4	5649.530	41.61	40.63	74.00	33.37	150	248	Horizontal
5	8053.011	38.87	43.41	74.00	30.59	150	15	Horizontal
6	13262.052	34.88	51.32	74.00	22.68	150	75	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	1378.476	42.7	45.39	54.00	8.61	150	201	Horizontal
2	2129.426	33.38	40.83	54.00	13.17	150	142	Horizontal
3	3717.143	36.78	31.31	54.00	22.69	150	2	Horizontal
4	5649.530	32.54	31.56	54.00	22.44	150	248	Horizontal
5	8053.011	31.89	36.43	54.00	17.57	150	15	Horizontal
6	13262.052	27.36	43.80	54.00	10.20	150	75	Horizontal

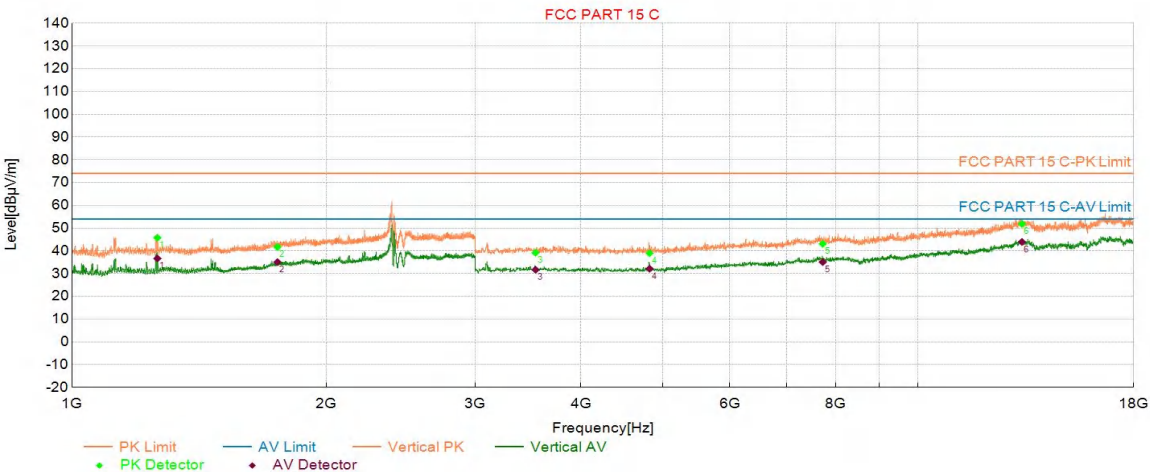
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-21 21:46:11

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	1262.052	43.10	45.75	74.00	28.25	150	224	Vertical
2	1750.150	36.22	41.70	74.00	32.30	150	3	Vertical
3	3534.107	44.86	39.20	74.00	34.80	150	333	Vertical
4	4821.364	42.87	38.98	74.00	35.02	150	352	Vertical
5	7725.945	38.90	43.06	74.00	30.94	150	188	Vertical
6	13292.058	35.23	51.82	74.00	22.18	150	198	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	1262.052	33.99	36.64	54.00	17.36	150	224	Vertical
2	1750.150	29.58	35.06	54.00	18.94	150	3	Vertical
3	3534.107	37.37	31.71	54.00	22.29	150	333	Vertical
4	4821.364	36.03	32.14	54.00	21.86	150	352	Vertical
5	7725.945	30.91	35.07	54.00	18.93	150	188	Vertical
6	13292.058	27.32	43.91	54.00	10.09	150	198	Vertical

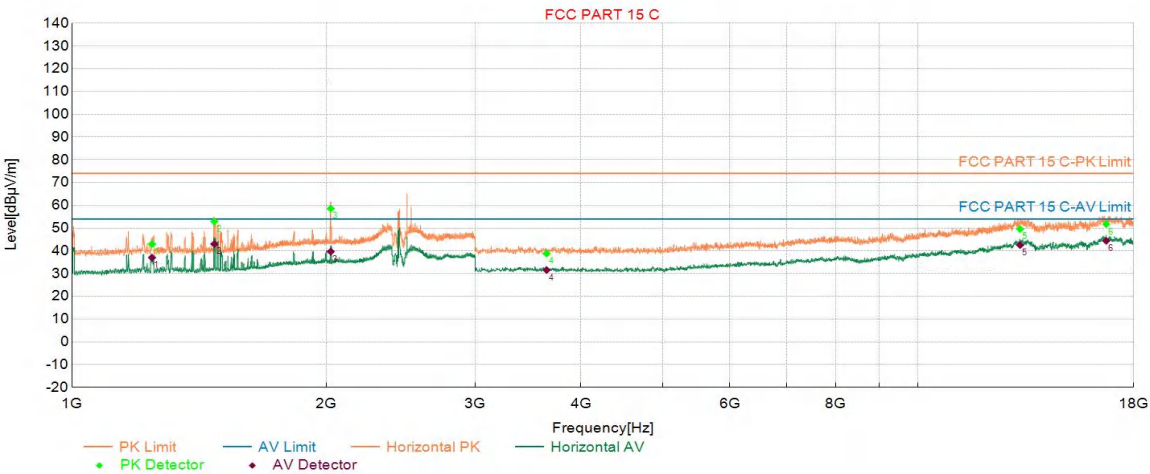
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2437	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-21 22:07:37

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	1243.649	40.37	42.97	74.00	31.03	150	2	Horizontal
2	1473.695	49.96	52.92	74.00	21.08	150	327	Horizontal
3	2023.405	51.32	58.62	74.00	15.38	150	217	Horizontal
4	3642.128	44.35	38.83	74.00	35.17	150	295	Horizontal
5	13223.045	33.34	49.58	74.00	24.42	150	35	Horizontal
6	16718.744	31.89	51.75	74.00	22.25	150	3	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	1243.649	34.42	37.02	54.00	16.98	150	2	Horizontal
2	1473.695	40.06	43.02	54.00	10.98	150	327	Horizontal
3	2023.405	32.38	39.68	54.00	14.32	150	217	Horizontal
4	3642.128	37.08	31.56	54.00	22.44	150	295	Horizontal
5	13223.045	26.3	42.54	54.00	11.46	150	35	Horizontal
6	16718.744	24.56	44.42	54.00	9.58	150	3	Horizontal

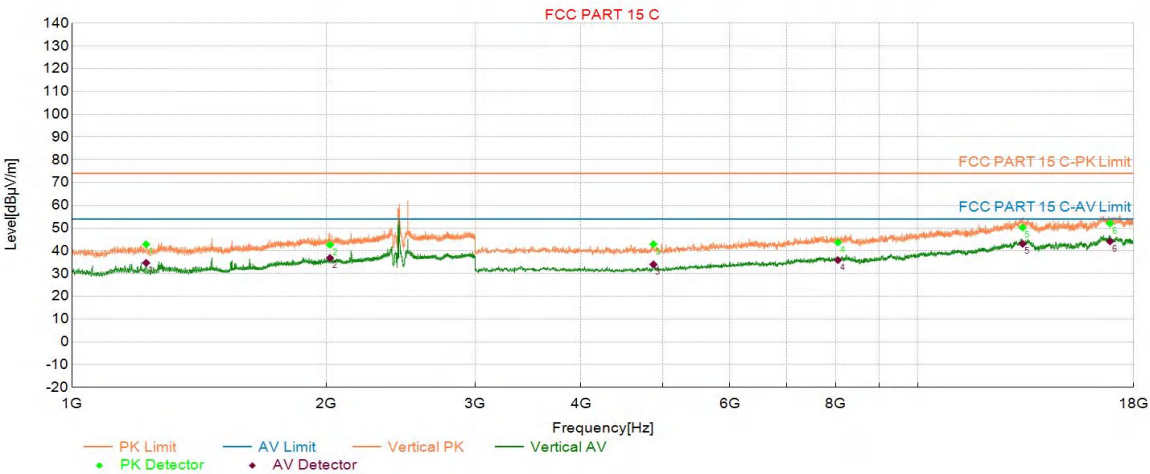
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2437	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-21 22:09:08

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	1224.045	40.30	42.86	74.00	31.14	150	94	Vertical
2	2019.404	35.36	42.66	74.00	31.34	150	7	Vertical
3	4872.374	46.58	42.93	74.00	31.07	150	358	Vertical
4	8053.011	39.16	43.70	74.00	30.30	150	245	Vertical
5	13316.063	33.71	50.23	74.00	23.77	150	358	Vertical
6	16892.779	31.05	52.00	74.00	22.00	150	102	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	1224.045	32.16	34.72	54.00	19.28	150	94	Vertical
2	2019.404	29.56	36.86	54.00	17.14	150	7	Vertical
3	4872.374	37.68	34.03	54.00	19.97	150	358	Vertical
4	8053.011	31.36	35.90	54.00	18.10	150	245	Vertical
5	13316.063	26.56	43.08	54.00	10.92	150	358	Vertical
6	16892.779	23.2	44.15	54.00	9.85	150	102	Vertical

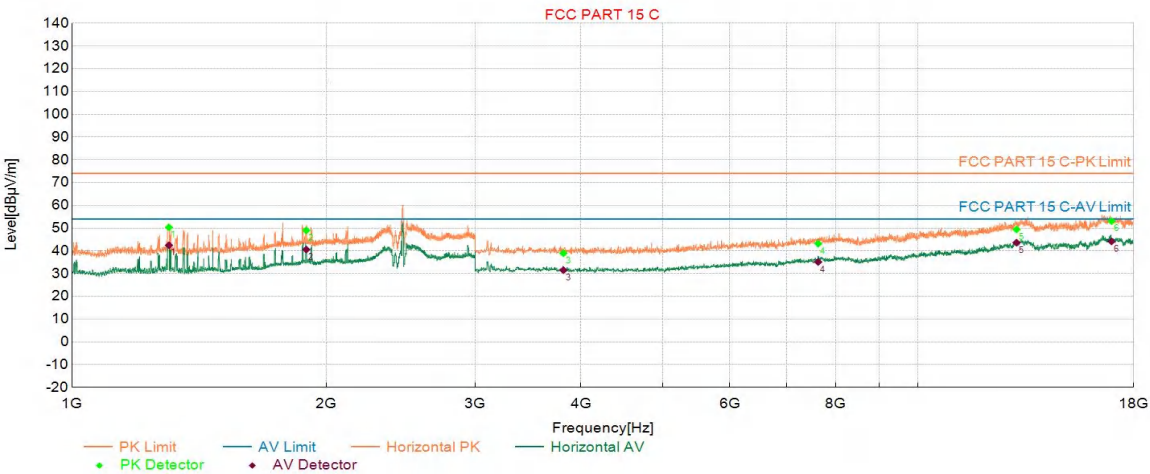
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2437	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-21 22:11:43

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	1302.460	47.58	50.30	74.00	23.70	150	68	Horizontal
2	1892.979	42.36	49.00	74.00	25.00	150	231	Horizontal
3	3813.163	44.47	38.94	74.00	35.06	150	10	Horizontal
4	7629.926	39.20	43.17	74.00	30.83	150	358	Horizontal
5	13094.019	33.74	49.42	74.00	24.58	150	312	Horizontal
6	16961.792	32.81	53.07	74.00	20.93	150	210	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	1302.460	39.74	42.46	54.00	11.54	150	68	Horizontal
2	1892.979	33.93	40.57	54.00	13.43	150	231	Horizontal
3	3813.163	37.05	31.52	54.00	22.48	150	10	Horizontal
4	7629.926	31.14	35.11	54.00	18.89	150	358	Horizontal
5	13094.019	27.92	43.60	54.00	10.40	150	312	Horizontal
6	16961.792	23.89	44.15	54.00	9.85	150	210	Horizontal

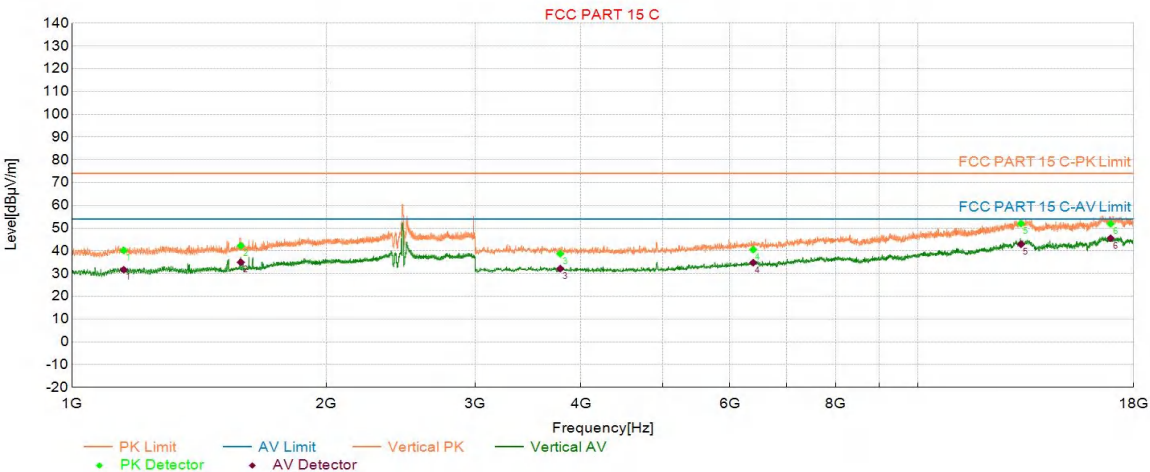
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2437	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-21 22:13:13

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	1151.630	38.13	40.20	74.00	33.80	150	360	Vertical
2	1583.717	38.84	42.23	74.00	31.77	150	203	Vertical
3	3780.156	44.24	38.72	74.00	35.28	150	221	Vertical
4	6393.679	38.91	40.53	74.00	33.47	150	118	Vertical
5	13256.051	35.57	51.98	74.00	22.02	150	313	Vertical
6	16919.784	31.04	51.85	74.00	22.15	150	209	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	1151.630	29.62	31.69	54.00	22.31	150	360	Vertical
2	1583.717	31.59	34.98	54.00	19.02	150	203	Vertical
3	3780.156	37.71	32.19	54.00	21.81	150	221	Vertical
4	6393.679	33.19	34.81	54.00	19.19	150	118	Vertical
5	13256.051	26.47	42.88	54.00	11.12	150	313	Vertical
6	16919.784	24.74	45.55	54.00	8.45	150	209	Vertical

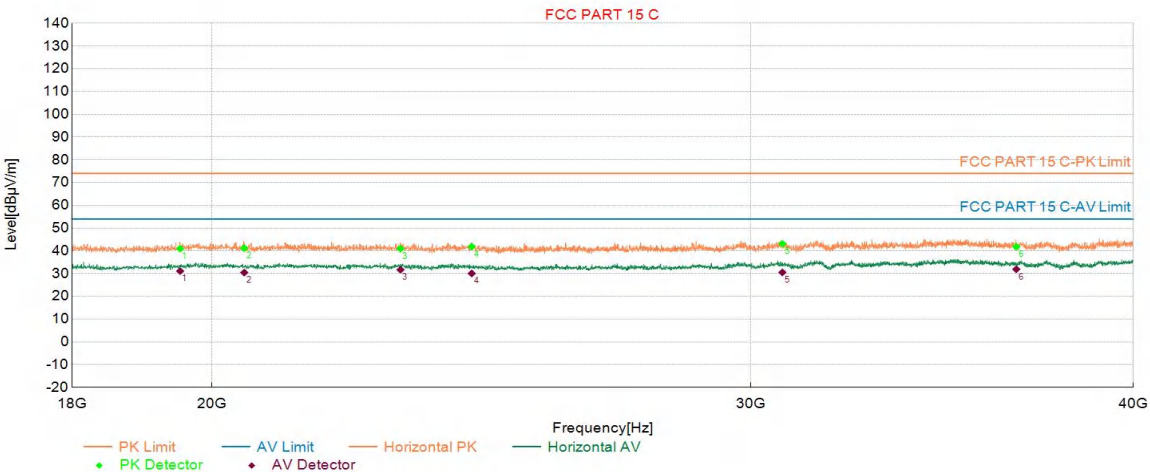
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:			
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2437	Voltage:	DC 5V
Environment:	24.8℃/50%	Engineer:	
Remark:			

Start of Test:2026-03-21 19:23:54

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	19527.105	37.68	40.96	74.00	33.04	150	30	Horizontal
2	20490.898	37.58	41.19	74.00	32.81	150	120	Horizontal
3	23047.810	34.09	40.97	74.00	33.03	150	200	Horizontal
4	24315.263	34.47	41.86	74.00	32.14	150	60	Horizontal
5	30718.544	33.5	43.11	74.00	30.89	150	80	Horizontal
6	36628.926	31.51	41.82	74.00	32.18	150	360	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	19527.105	27.83	31.11	54.00	22.89	150	30	Horizontal
2	20490.898	26.83	30.44	54.00	23.56	150	120	Horizontal
3	23047.810	24.82	31.70	54.00	22.30	150	200	Horizontal
4	24315.263	22.68	30.07	54.00	23.93	150	60	Horizontal
5	30718.544	20.92	30.53	54.00	23.47	150	80	Horizontal
6	36628.926	21.60	31.91	54.00	22.09	150	360	Horizontal

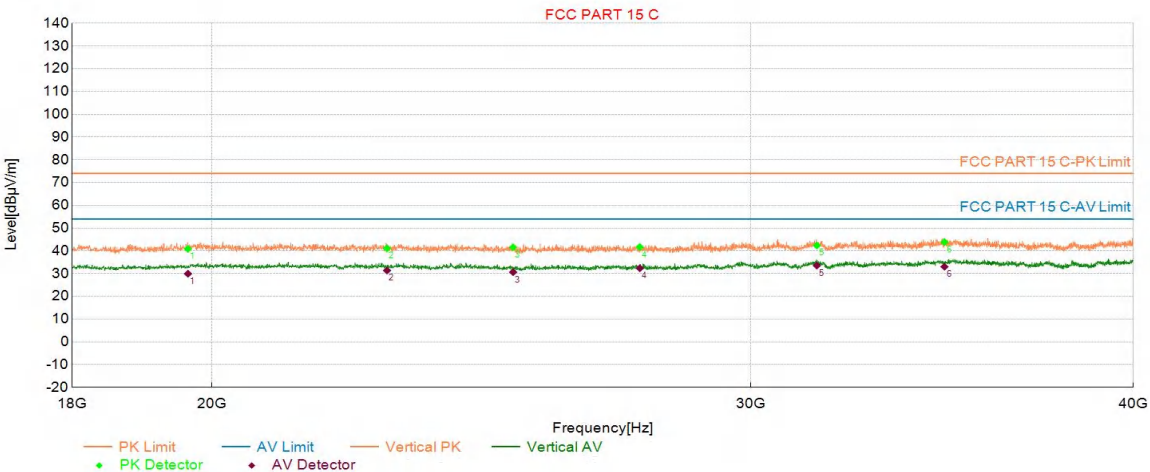
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:			
EUT:			
Model:	SI07F	SN:	
Mode:	11AX20_MCS0_2437	Voltage:	DC 5V
Environment:	24.8℃/50%	Engineer:	
Remark:			

Start of Test:2026-03-21 19:24:12

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	19641.528	37.46	40.89	74.00	33.11	150	140	Vertical
2	22814.563	34.43	41.11	74.00	32.89	150	190	Vertical
3	25085.417	35.17	41.57	74.00	32.43	150	310	Vertical
4	27593.919	38.14	41.68	74.00	32.32	150	40	Vertical
5	31523.905	32.37	42.37	74.00	31.63	150	0	Vertical
6	34701.340	33.25	43.86	74.00	30.14	150	280	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	19641.528	26.52	29.95	54.00	24.05	150	140	Vertical
2	22814.563	24.71	31.39	54.00	22.61	150	190	Vertical
3	25085.417	24.24	30.64	54.00	23.36	150	310	Vertical
4	27593.919	28.83	32.37	54.00	21.63	150	40	Vertical
5	31523.905	23.52	33.52	54.00	20.48	150	0	Vertical
6	34701.340	22.41	33.02	54.00	20.98	150	280	Vertical

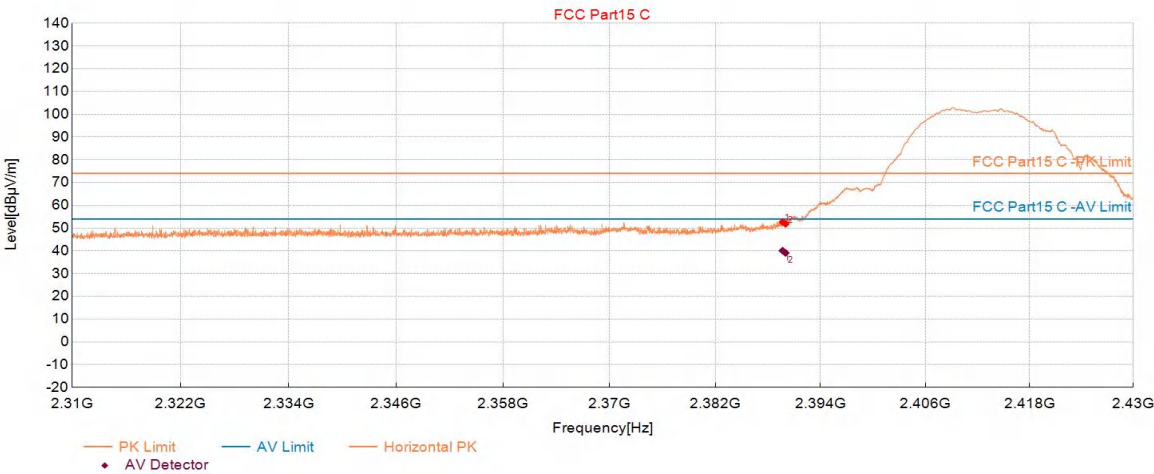
Note1: PK Value=PK Reading + Factor, PK Margin=PK Limit - PK Value
Note2: AV Value=AV Reading + Factor, AV Margin=AV Limit - AV Value

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11B_1Mbps_2412	Voltage:	DC 5V
Environment:	24.8℃/45%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-04-01 17:38:52

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	2389.672	44.35	52.70	8.35	74.00	21.30	150	84	Horizontal
2	2390.008	43.50	51.86	8.36	74.00	22.14	150	84	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	2389.674	31.73	8.35	40.08	54.00	13.92	149.5	126	Horizontal
2	2390.008	30.75	8.36	39.11	54.00	14.89	150	84	Horizontal

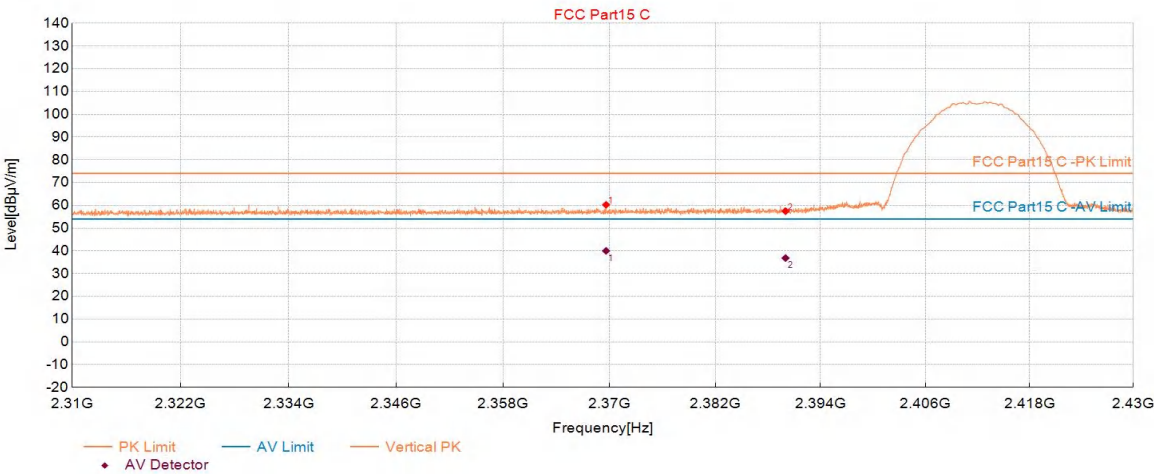
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11B_1Mbps_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 10:57:34

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	2369.628	52.02	60.26	8.24	74.00	13.74	150	192	Vertical
2	2390.008	49.08	57.44	8.36	74.00	16.56	150	316	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	2369.628	31.77	8.24	40.01	54.00	13.99	149.3	161	Vertical
2	2390.008	28.46	8.36	36.82	54.00	17.18	150	316	Vertical

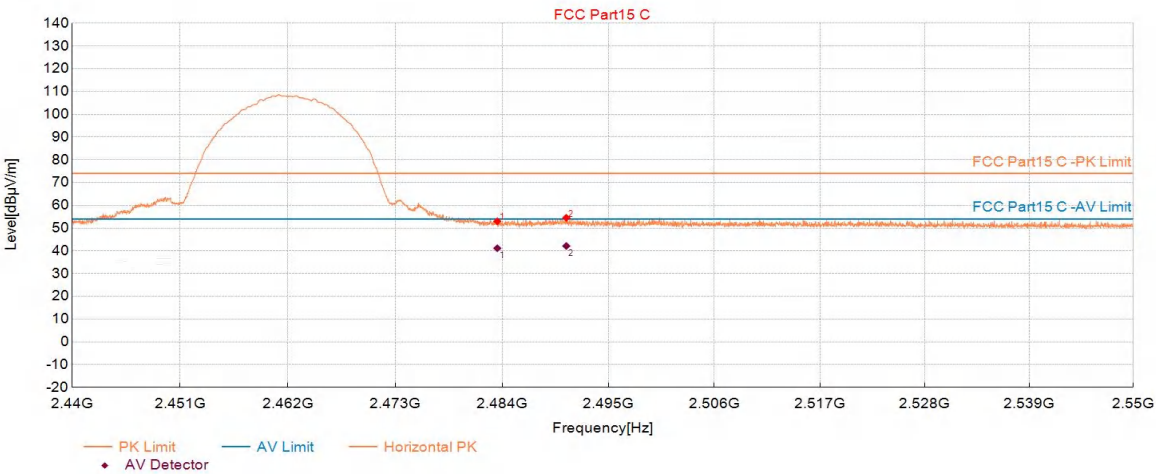
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11B_1Mbps_2462	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 11:06:42

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	2483.503	44.32	53.00	8.68	74.00	21.00	150	348	Horizontal
2	2490.632	45.82	54.53	8.71	74.00	19.47	150	348	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	2483.503	32.47	8.68	41.15	54.00	12.85	150	348	Horizontal
2	2490.631	33.42	8.71	42.13	54.00	11.87	143.5	343	Horizontal

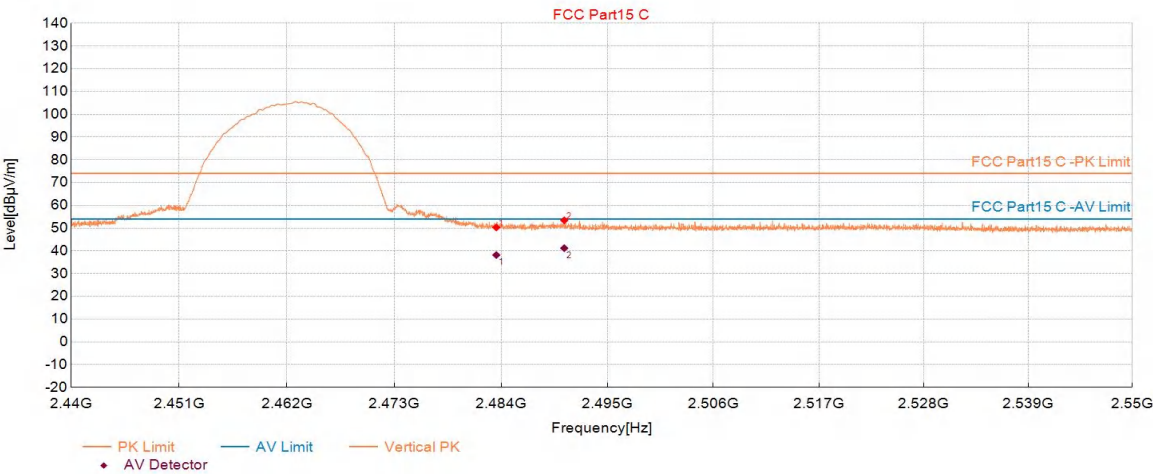
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11B_1Mbps_2462	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 11:07:43

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	2483.503	41.62	50.30	8.68	74.00	23.70	150	168	Vertical
2	2490.522	44.72	53.43	8.71	74.00	20.57	150	178	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	2483.503	29.48	8.68	38.16	54.00	15.84	150	168	Vertical
2	2490.522	32.48	8.71	41.19	54.00	12.81	150	178	Vertical

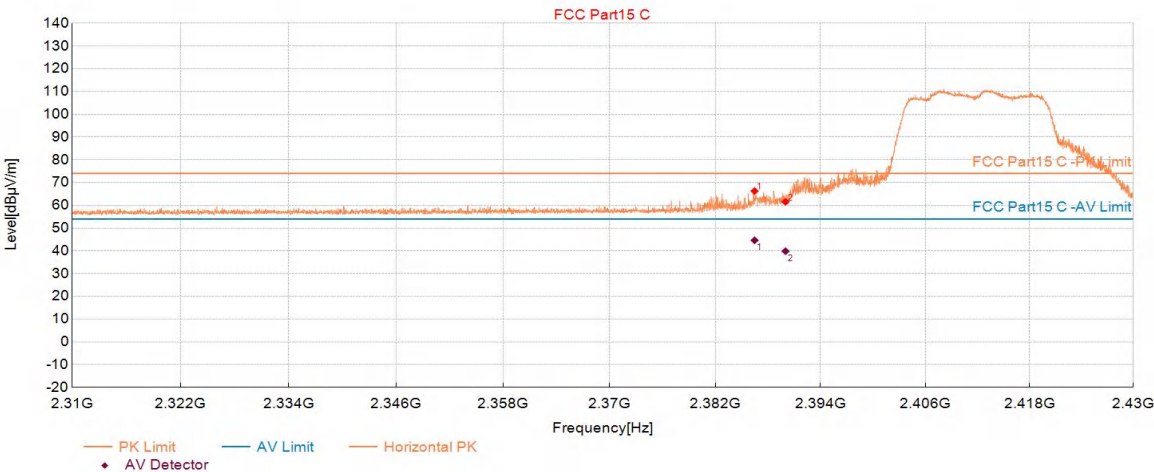
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11G_6Mbps_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 11:58:10

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	2386.479	57.95	66.29	8.34	74.00	7.71	150	8	Horizontal
2	2390.008	53.19	61.55	8.36	74.00	12.45	150	360	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	2386.478	36.29	8.34	44.63	54.00	9.37	159	7	Horizontal
2	2390.008	31.49	8.36	39.85	54.00	14.15	150	360	Horizontal

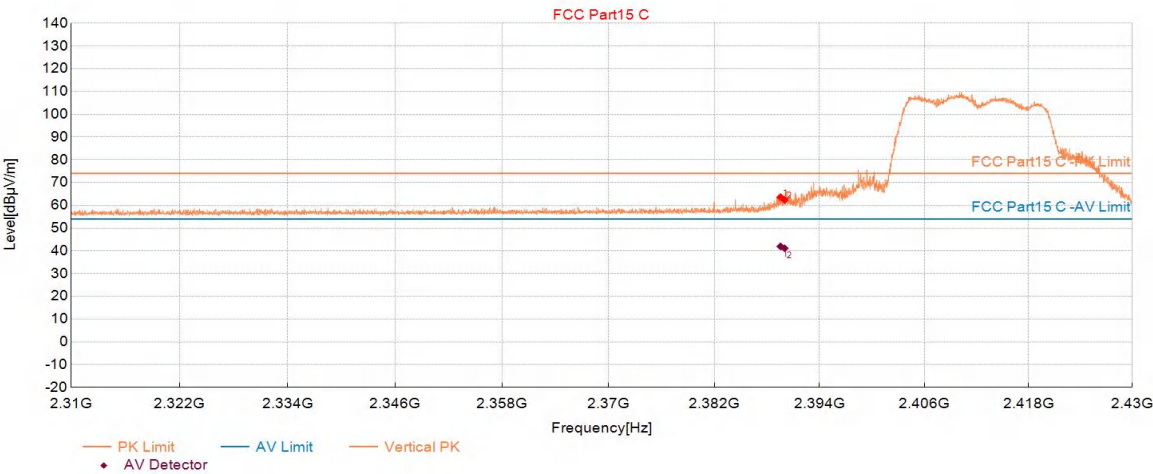
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11G_6Mbps_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 11:59:11

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	2389.552	55.26	63.61	8.35	74.00	10.39	150	141	Vertical
2	2390.008	54.07	62.43	8.36	74.00	11.57	150	193	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	2389.552	33.59	8.35	41.94	54.00	12.06	150	141	Vertical
2	2390.008	32.79	8.36	41.15	54.00	12.85	150	193	Vertical

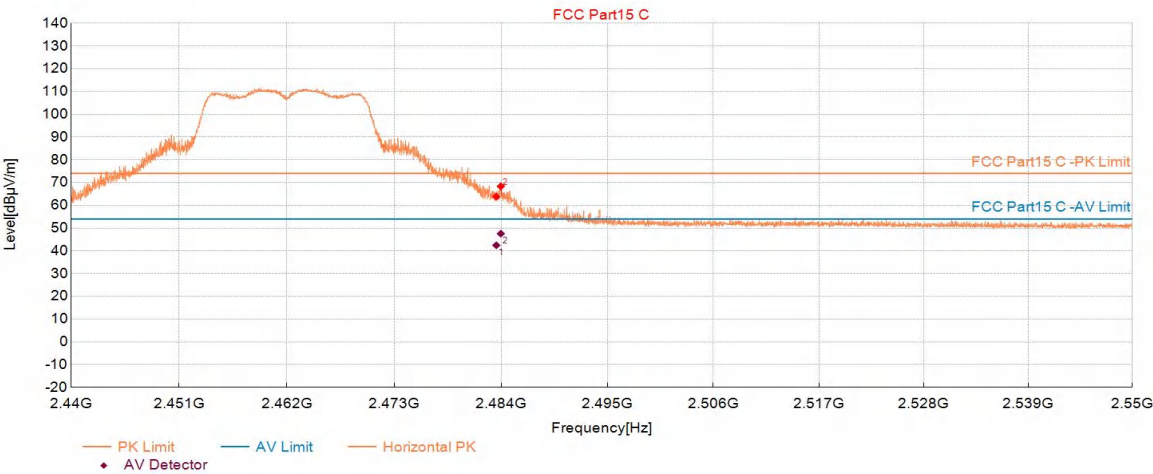
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11G_6Mbps_2462	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 12:14:51

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	2483.503	55.14	63.82	8.68	74.00	10.18	150	348	Horizontal
2	2483.965	59.69	68.37	8.68	74.00	5.63	150	353	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	2483.503	33.78	8.68	42.46	54.00	11.54	150	348	Horizontal
2	2483.965	38.88	8.68	47.56	54.00	6.44	136.2	343	Horizontal

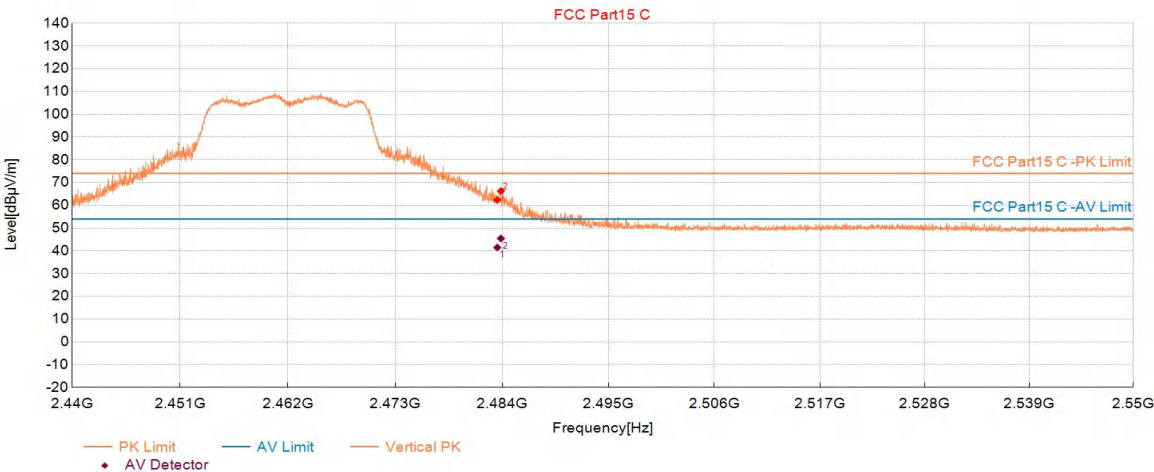
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11G_6Mbps_2462	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 12:15:51

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	2483.503	53.65	62.33	8.68	74.00	11.67	150	44	Vertical
2	2483.877	57.61	66.29	8.68	74.00	7.71	150	44	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	2483.503	32.79	8.68	41.47	54.00	12.53	150	44	Vertical
2	2483.877	36.78	8.68	45.46	54.00	8.54	150	44	Vertical

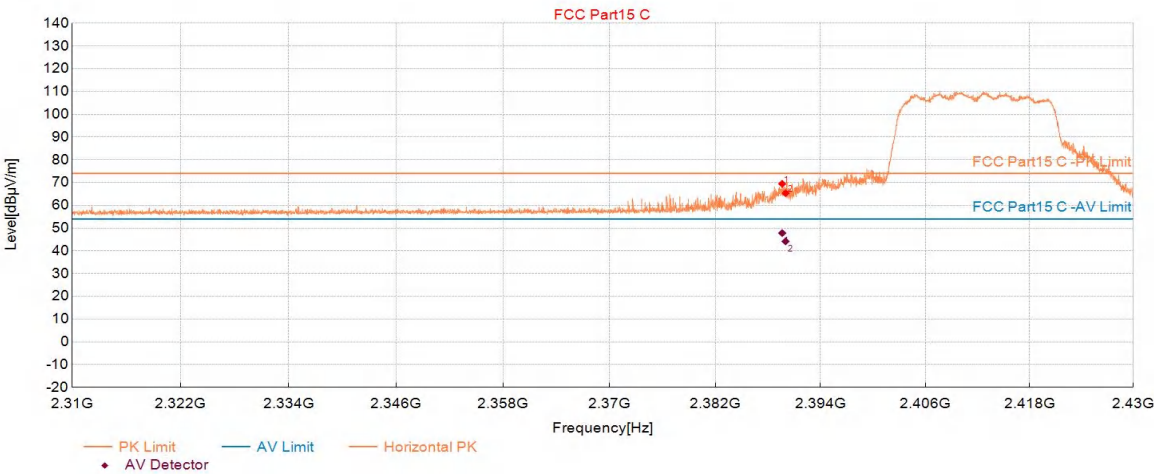
Note1: Level=Reading+Factor, Margin=Limit - Level

Test Report

Project Information			
Customer:	Wifi Module		
EUT:			
Model:	SI07F	SN:	
Mode:	11N20_MCS0_2412	Voltage:	DC 5V
Environment:	23.8℃/42%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-03-16 13:07:49

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	2389.624	61.12	69.47	8.35	74.00	4.53	150	360	Horizontal
2	2390.008	56.99	65.35	8.36	74.00	8.65	150	34	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	2389.625	39.45	8.35	47.80	54.00	6.20	141.3	3	Horizontal
2	2390.008	35.79	8.36	44.15	54.00	9.85	150	34	Horizontal

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