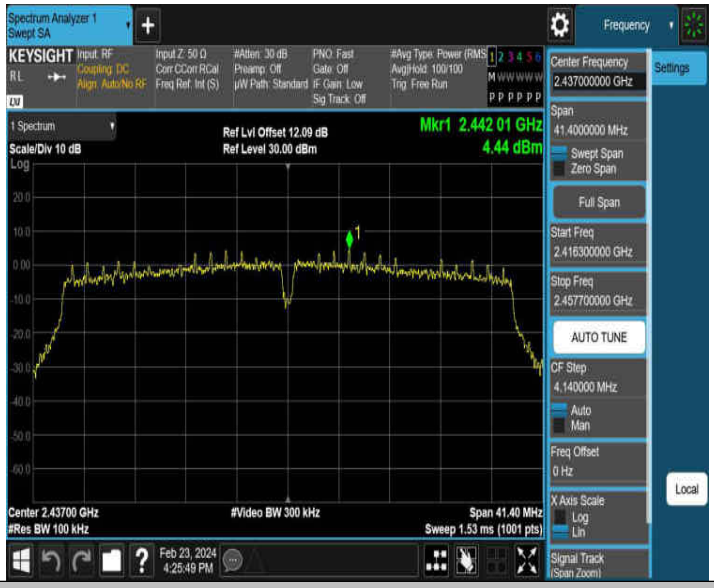
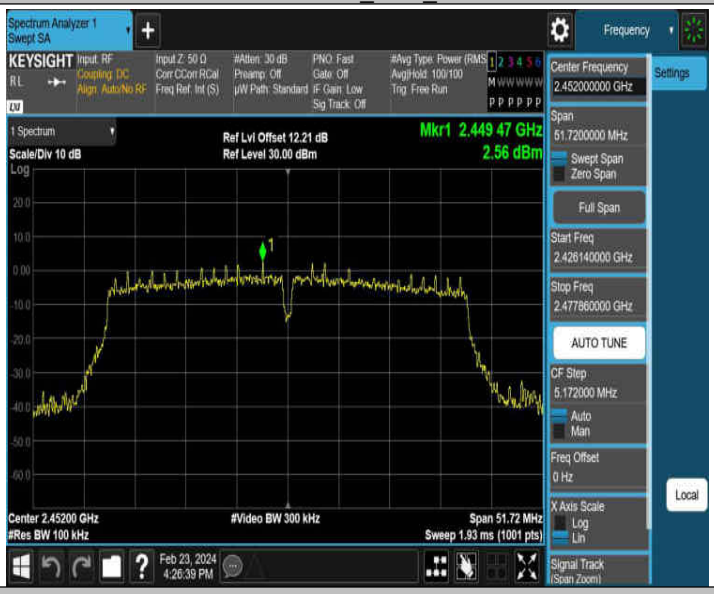
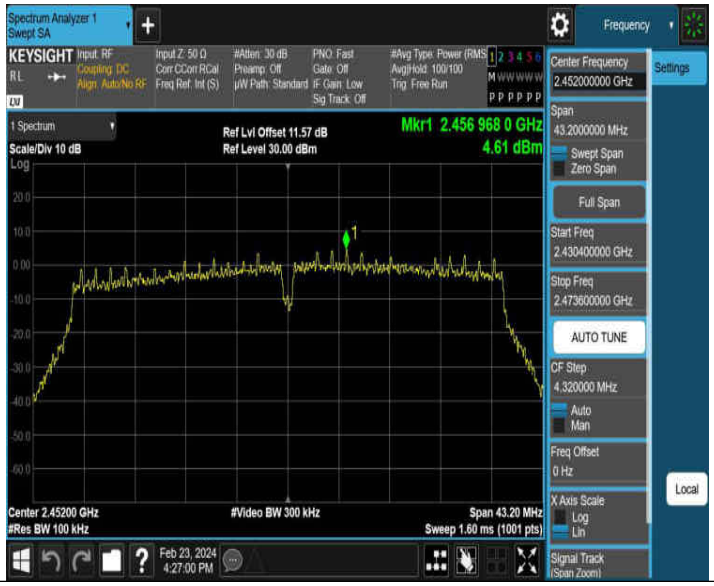


11N40MIMO_Ant2_2437

11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



Band edge:

11B_Ant1_Low_2412

11B_Ant2_Low_2412

11B_Ant1_High_2462

11B_Ant2_High_2462

11G_Ant1_Low_2412

11G_Ant2_Low_2412

11G_Ant1_High_2462

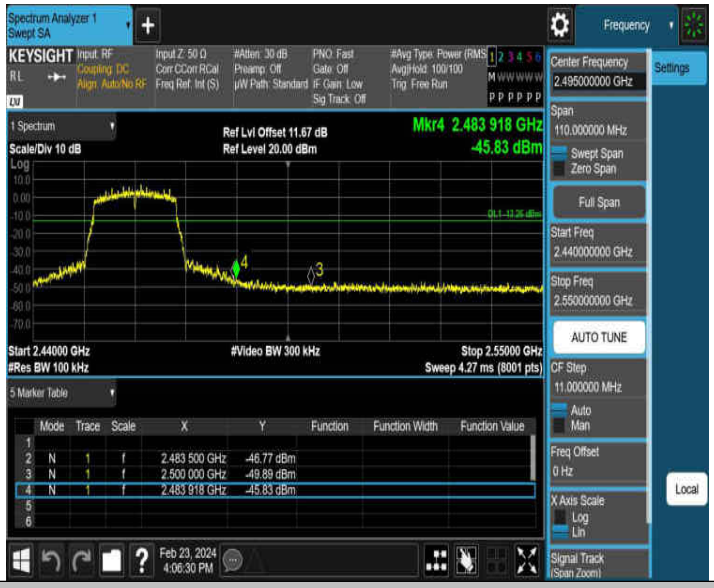
11G_Ant2_High_2462

11N20MIMO_Ant1_Low_2412

11N20MIMO_Ant2_Low_2412

11N20MIMO_Ant1_High_2462

11N20MIMO_Ant2_High_2462



11N40MIMO_Ant1_Low_2422

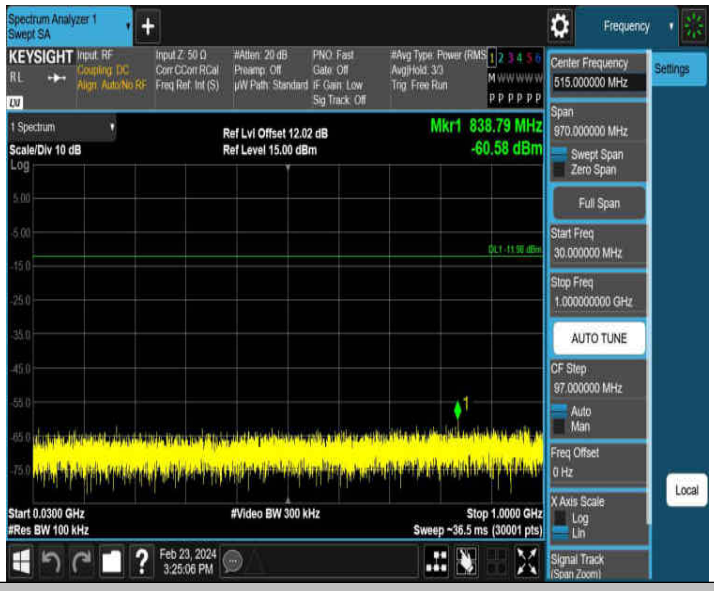
11N40MIMO_Ant2_Low_2422

11N40MIMO_Ant1_High_2452

11N40MIMO_Ant2_High_2452

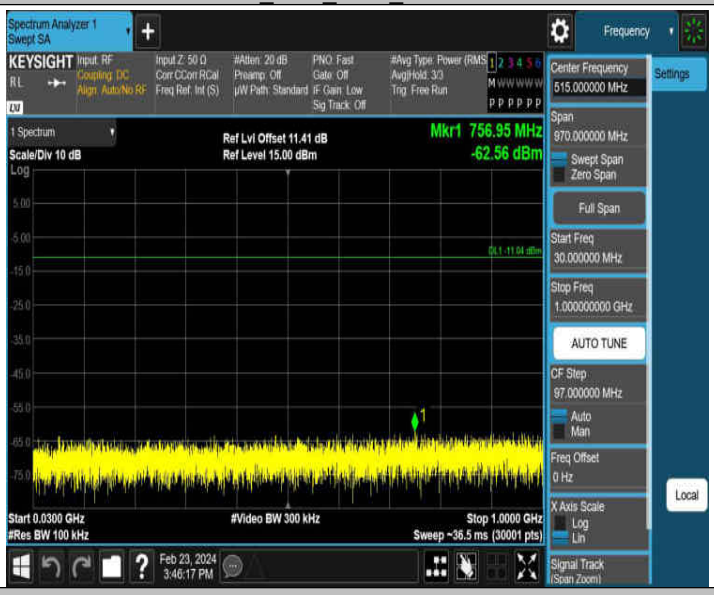
Spurious Emission:

11B_Ant1_2412_30~1000



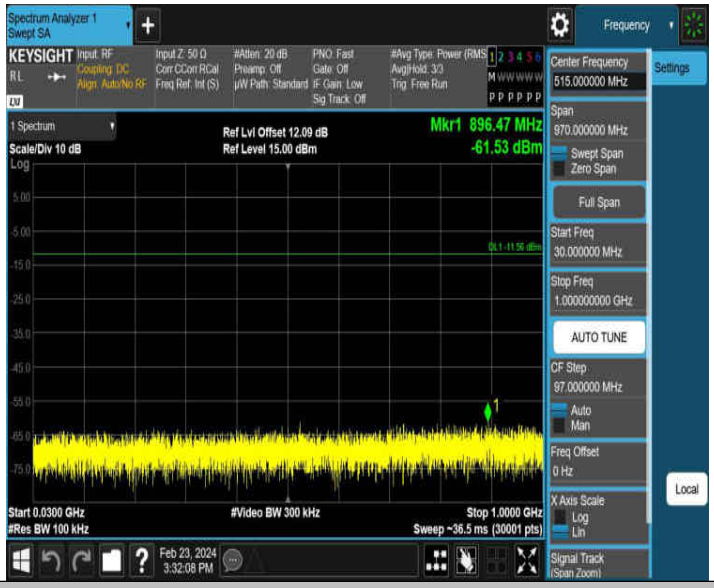
11B_Ant1_2412_1000~26500

11B_Ant2_2412_30~1000



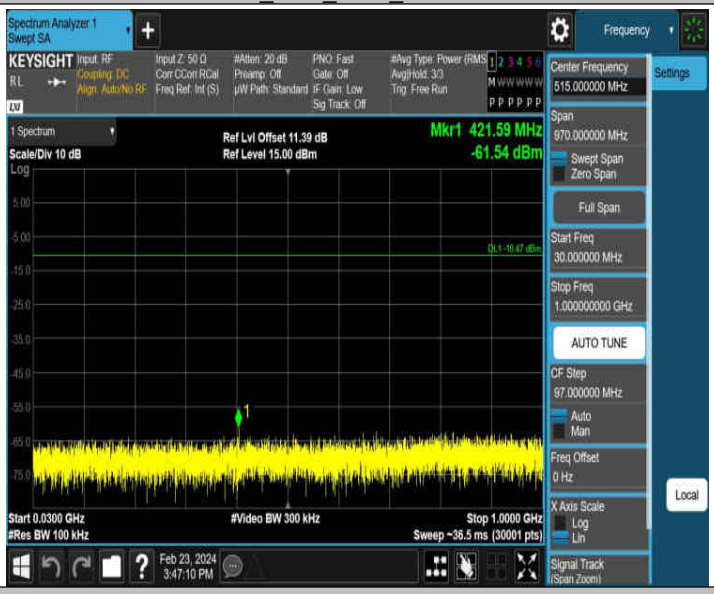
11B_Ant2_2412_1000~26500

11B_Ant1_2437_30~1000



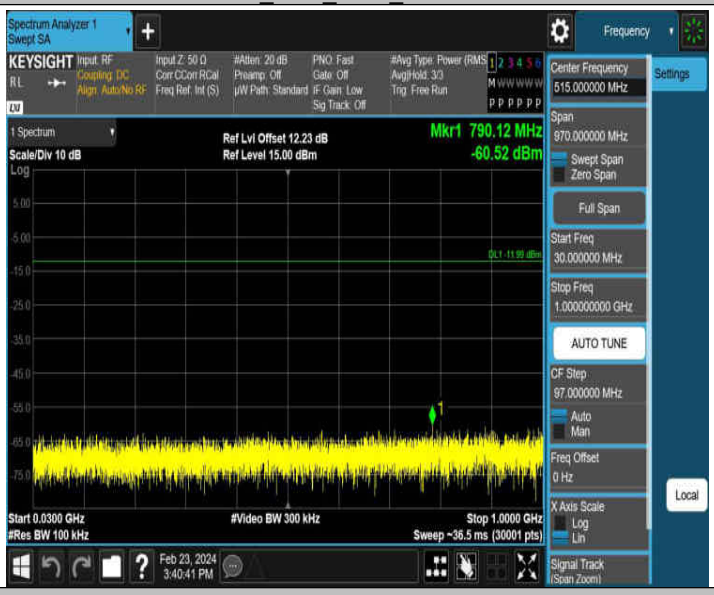
11B_Ant1_2437_1000~26500

11B_Ant2_2437_30~1000



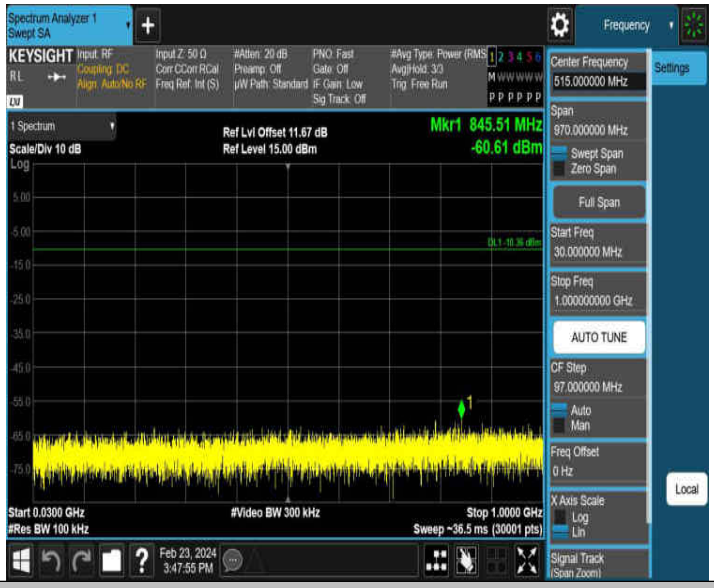
11B_Ant2_2437_1000~26500

11B_Ant1_2462_30~1000



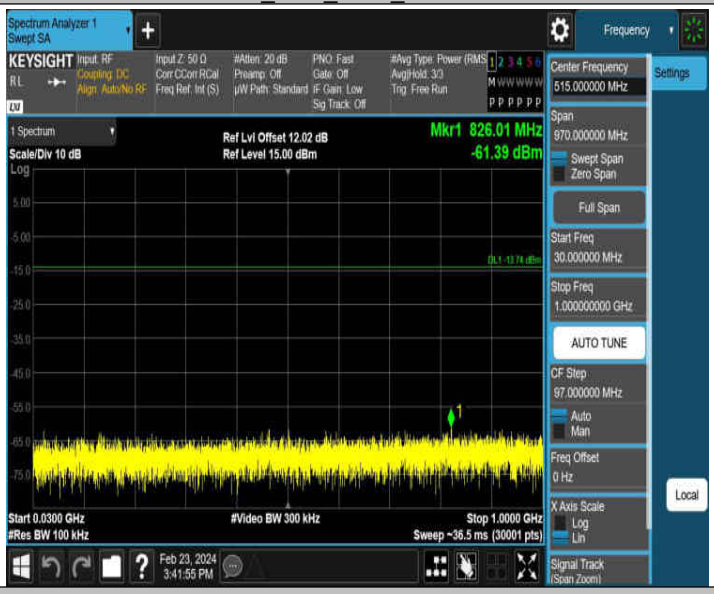
11B_Ant1_2462_1000~26500

11B_Ant2_2462_30~1000



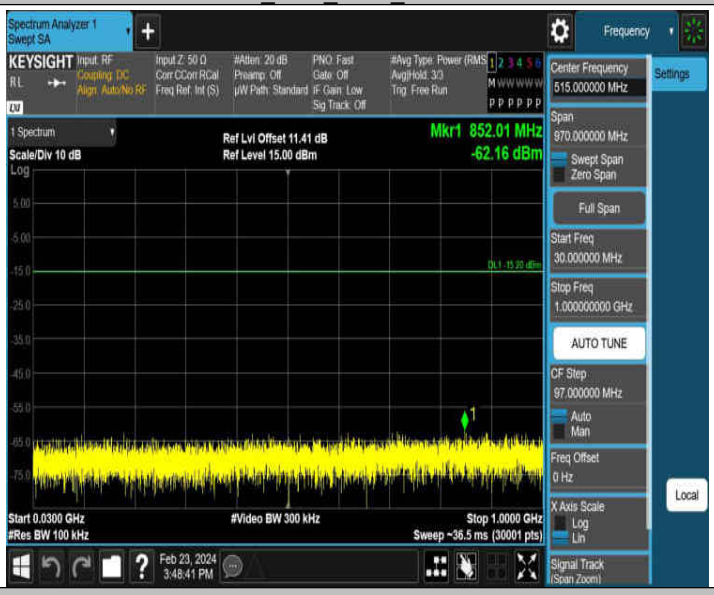
11B_Ant2_2462_1000~26500

11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500

11G_Ant2_2412_30~1000

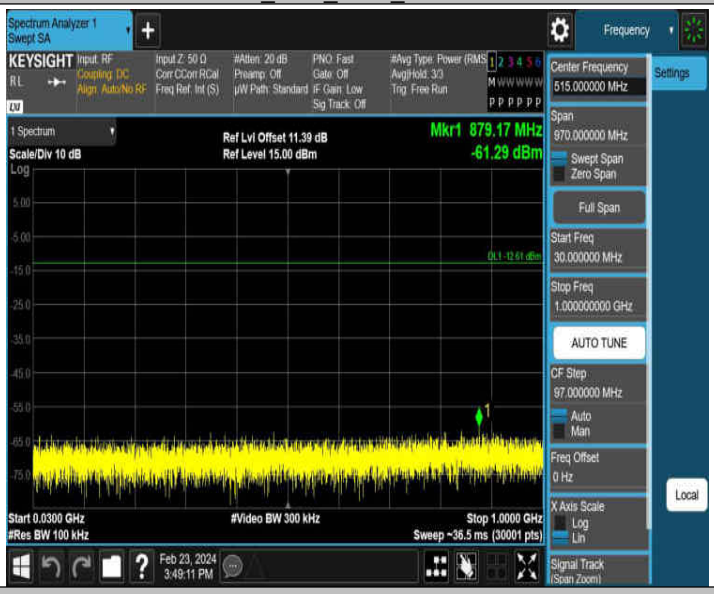


11G_Ant2_2412_1000~26500

11G_Ant1_2437_30~1000

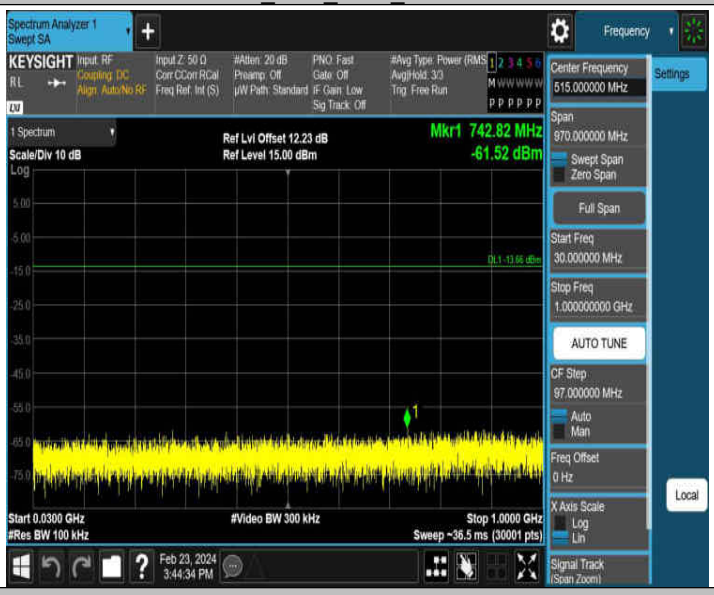
11G_Ant1_2437_1000~26500

11G_Ant2_2437_30~1000



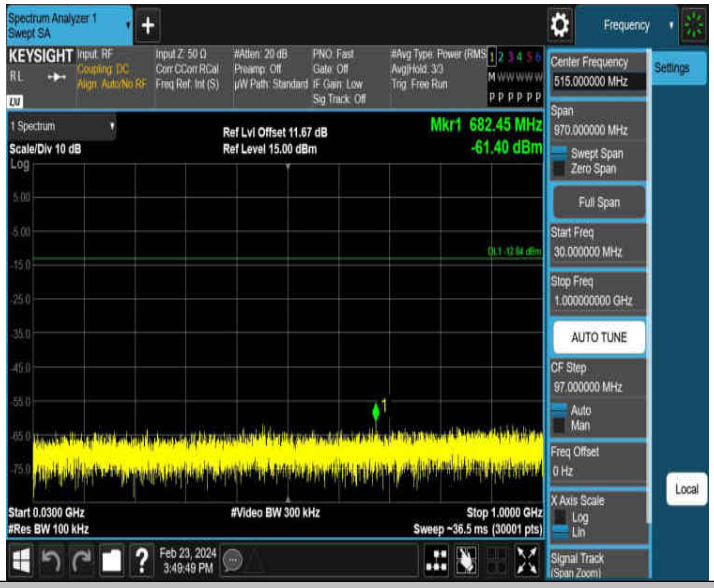
11G_Ant2_2437_1000~26500

11G_Ant1_2462_30~1000



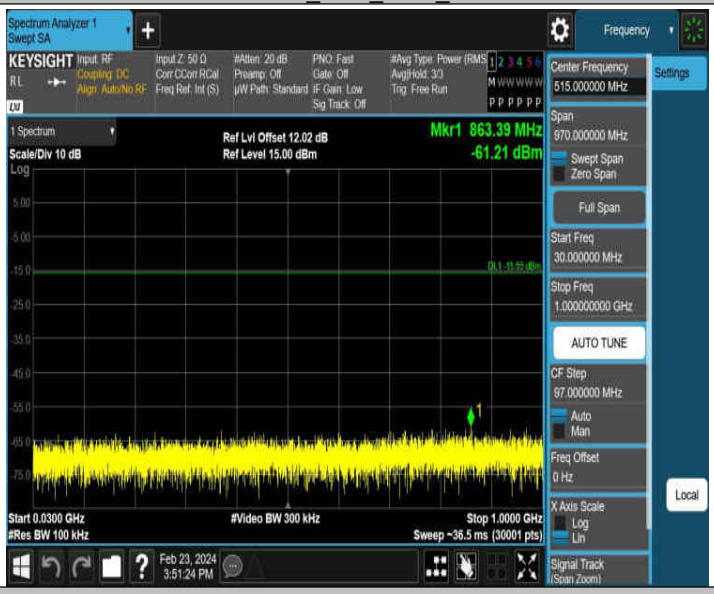
11G_Ant1_2462_1000~26500

11G_Ant2_2462_30~1000



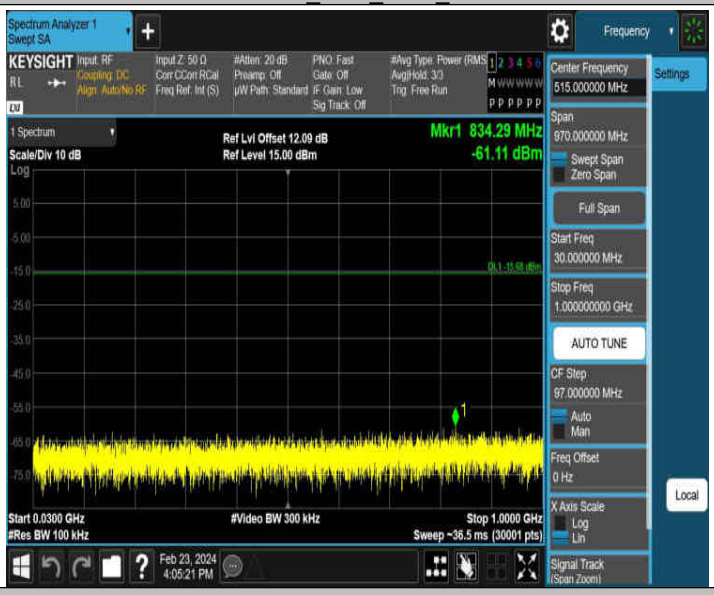
11G_Ant2_2462_1000~26500

11N20MIMO_Ant1_2412_30~1000



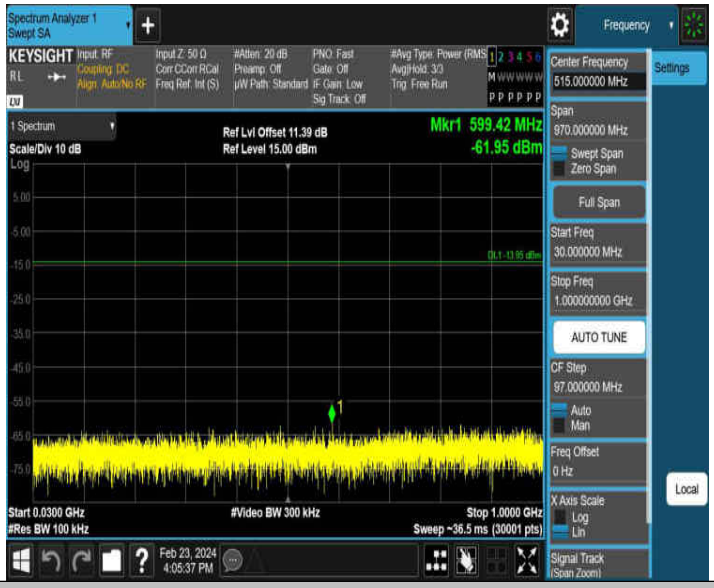
11N20MIMO_Ant1_2412_1000~26500

11N20MIMO_Ant1_2437_30~1000



11N20MIMO_Ant1_2437_1000~26500

11N20MIMO_Ant2_2437_30~1000

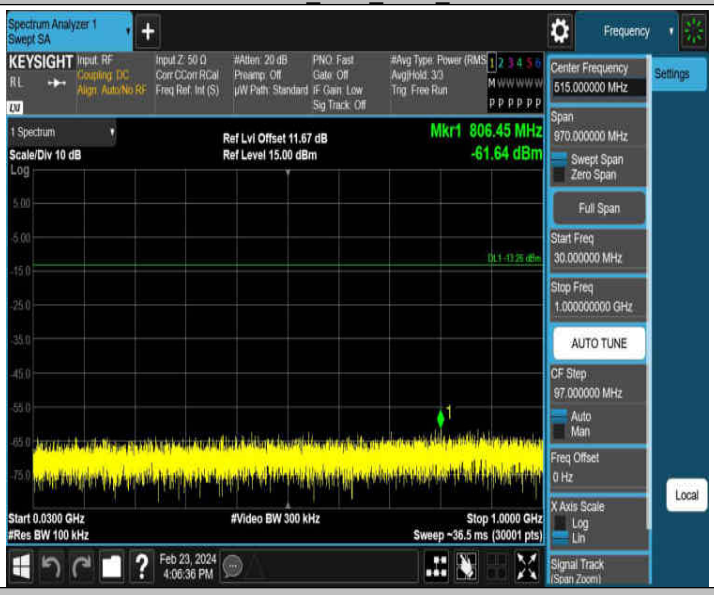


11N20MIMO_Ant2_2437_1000~26500

11N20MIMO_Ant1_2462_30~1000

11N20MIMO_Ant1_2462_1000~26500

11N20MIMO_Ant2_2462_30~1000

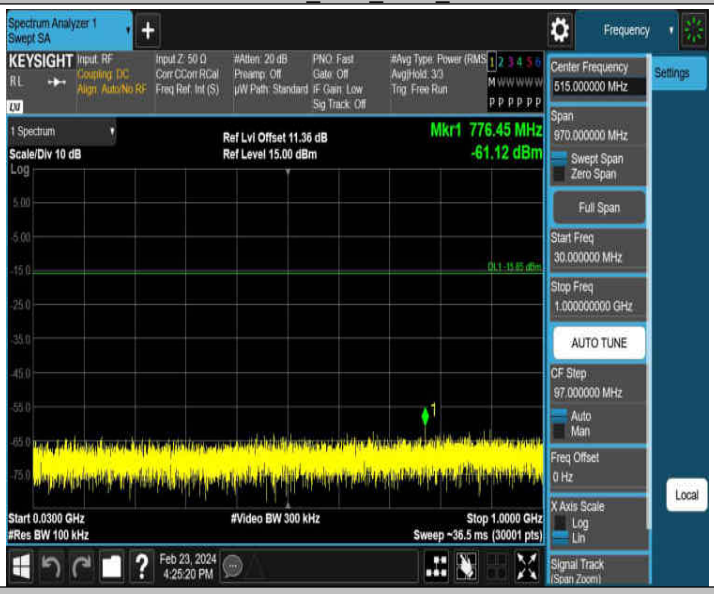


11N20MIMO_Ant2_2462_1000~26500

11N40MIMO_Ant1_2422_30~1000

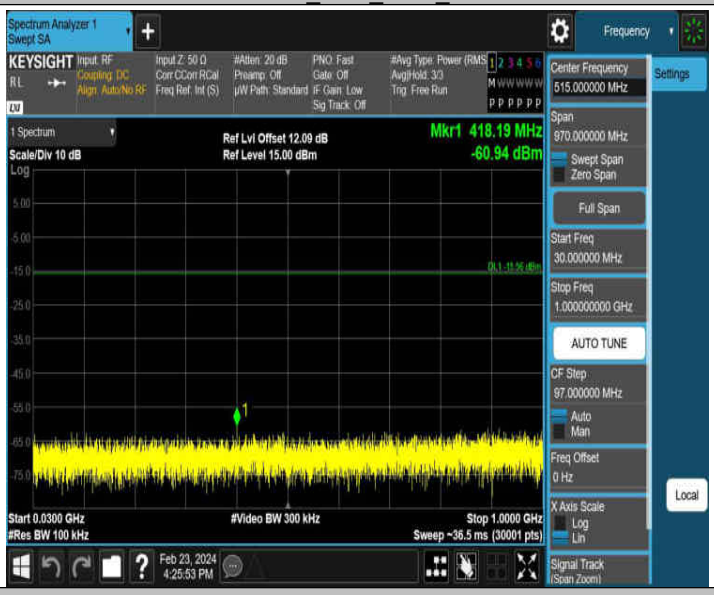
11N40MIMO_Ant1_2422_1000~26500

11N40MIMO_Ant2_2422_30~1000



11N40MIMO_Ant2_2422_1000~26500

11N40MIMO_Ant1_2437_30~1000

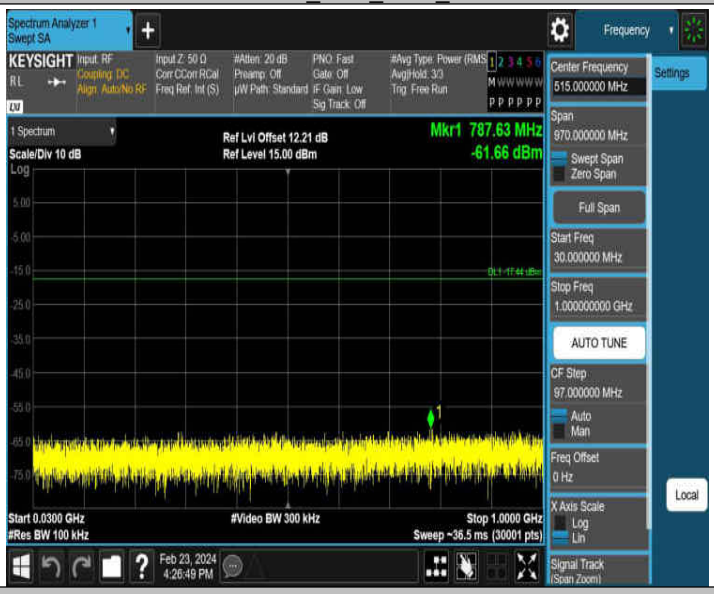


11N40MIMO_Ant1_2437_1000~26500

11N40MIMO_Ant2_2437_30~1000

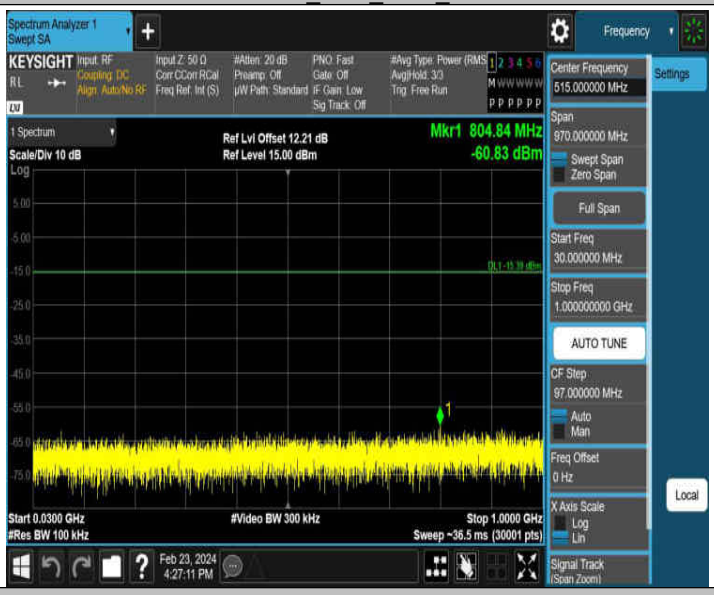
11N40MIMO_Ant2_2437_1000~26500

11N40MIMO_Ant1_2452_30~1000



11N40MIMO_Ant1_2452_1000~26500

11N40MIMO_Ant2_2452_30~1000

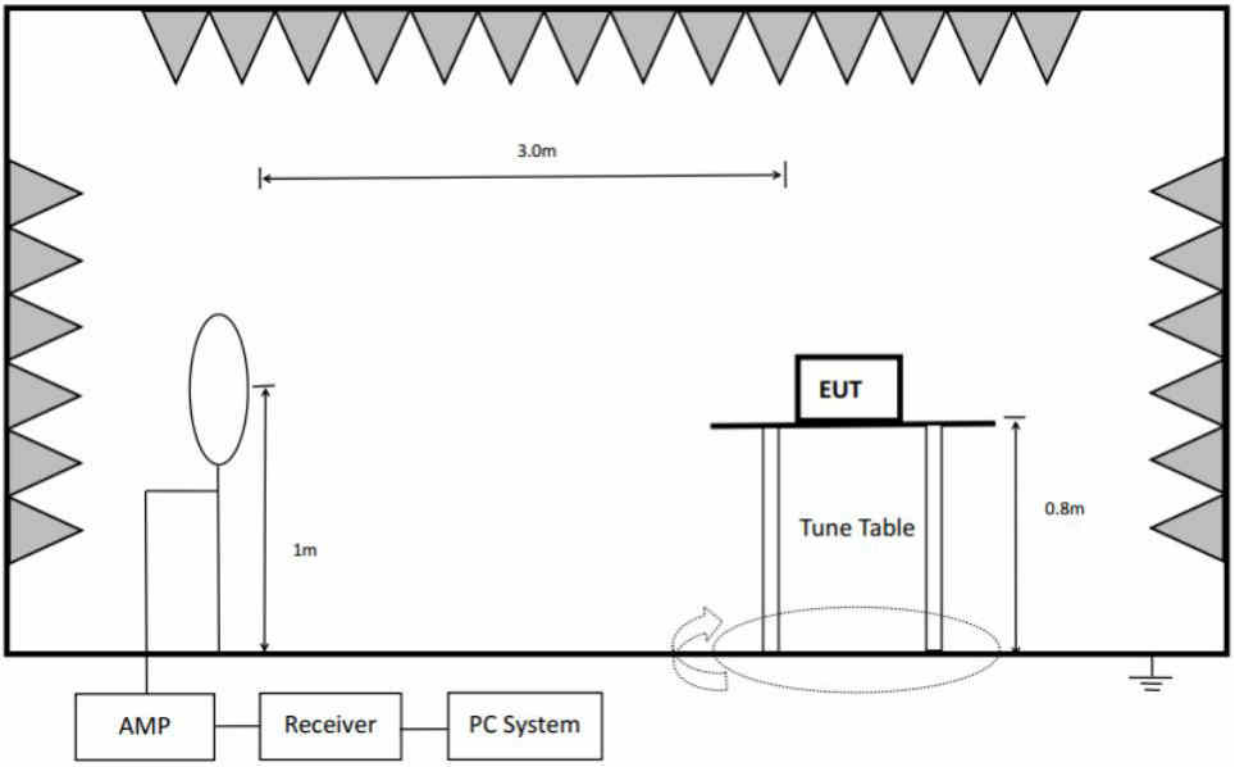


11N40MIMO_Ant2_2452_1000~26500

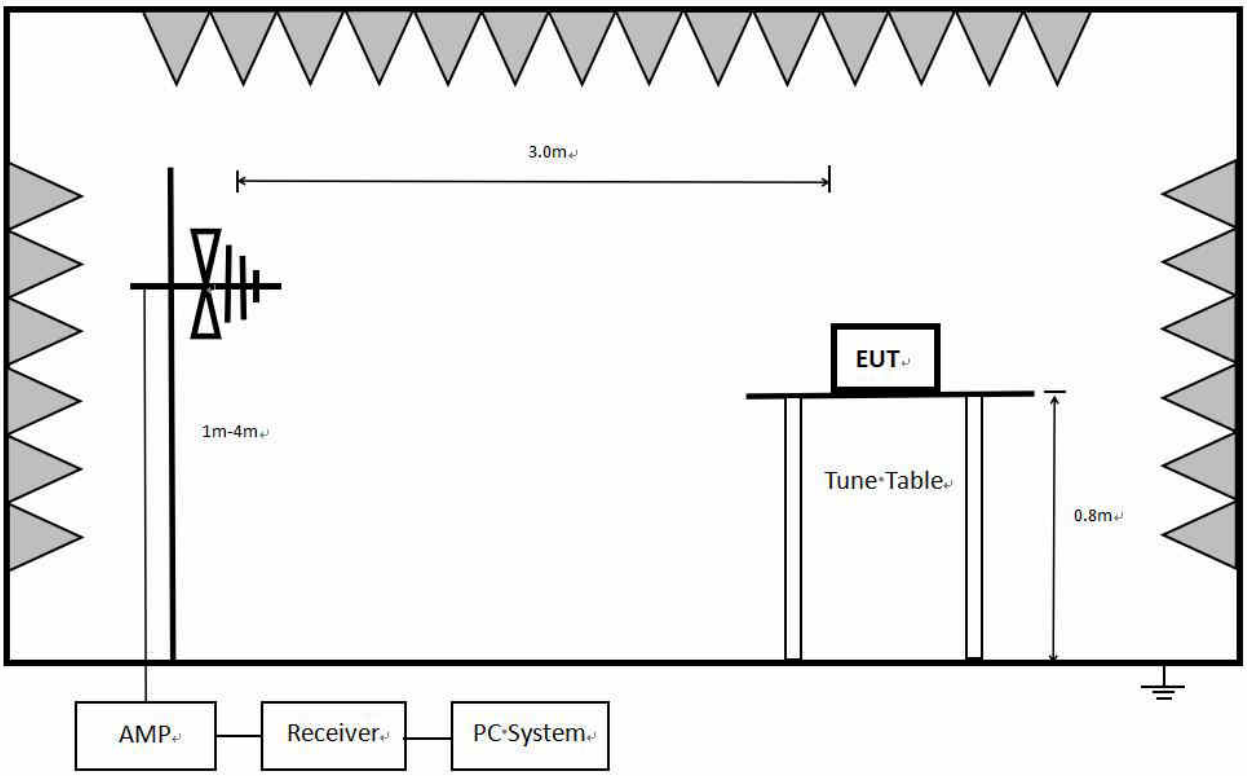
13. Radiated Emission

13.1. Block diagram of test setup

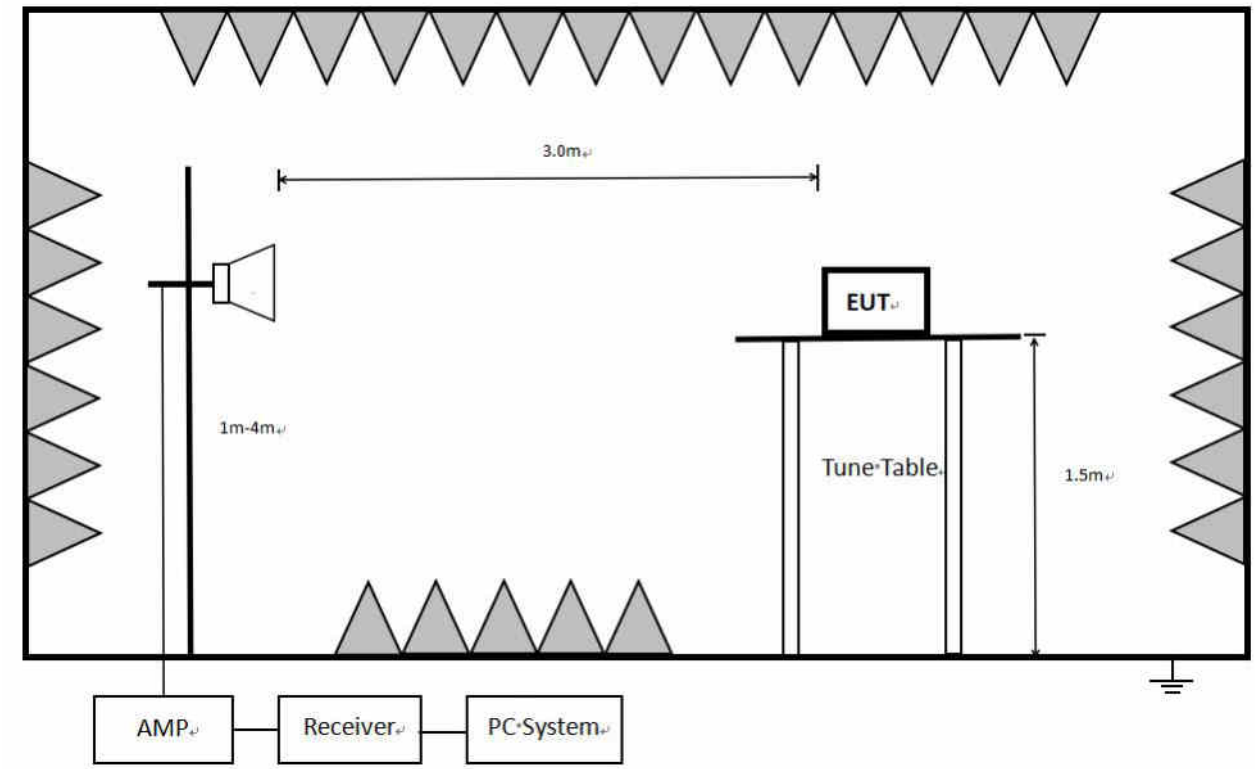
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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 an appropriate high pass 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			

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

[2]Above 38.6

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field Strengths Limit	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
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 dB(μV)/m (Peak) 54.0 dB(μV)/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 C63.10-2013

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 C63.10-2013.

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 high pass 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 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 C63.10-2013.

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 high pass 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, 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 limits.

Note1: 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.

Note2: 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 11B mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

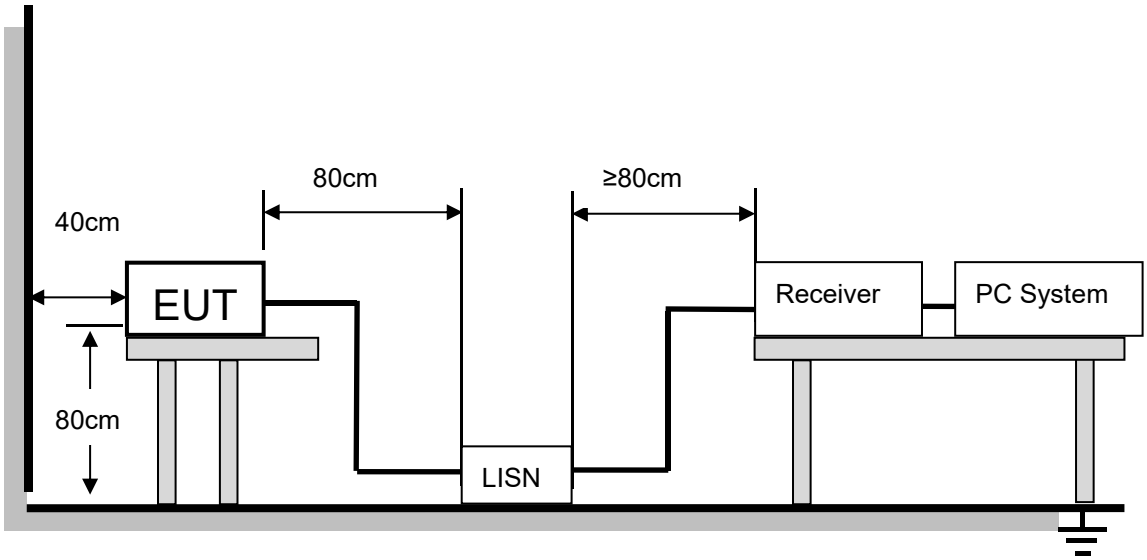
13.5. Original test data

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 C63.10-2013.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 antenna used for this product is FPC 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 4.81 dBi

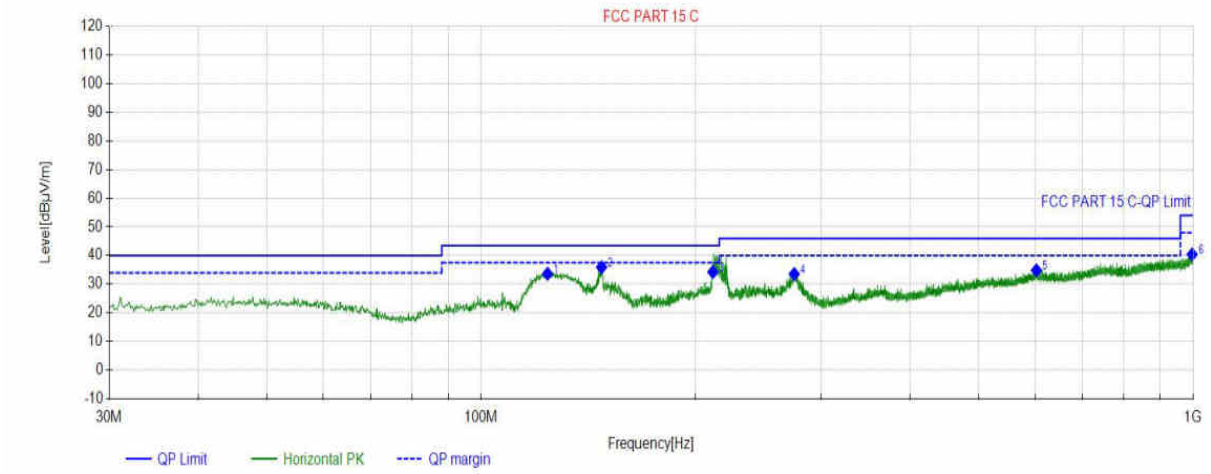
APPENDIX A – Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-28 00:12:17

Test Graph



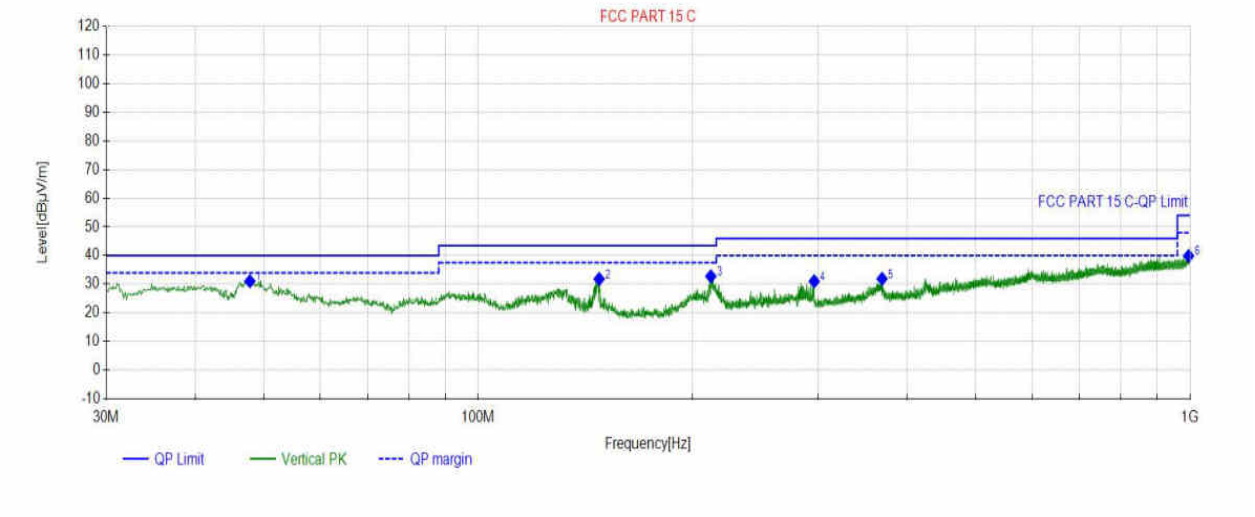
Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBμV/m)	QP Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	123.9054	17.96	33.64	43.50	9.86	100	106	Horizontal
2	147.5758	17.14	35.92	43.50	7.58	100	34	Horizontal
3	211.5322	20.29	34.25	43.50	9.25	100	241.2	Horizontal
4	275.2405	21.49	33.56	46.00	12.44	100	218	Horizontal
5	602.5513	30.11	34.84	46.00	11.16	100	153	Horizontal
6	997.1867	35.30	40.39	54.00	13.61	100	204	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-28 00:13:02

Test Graph



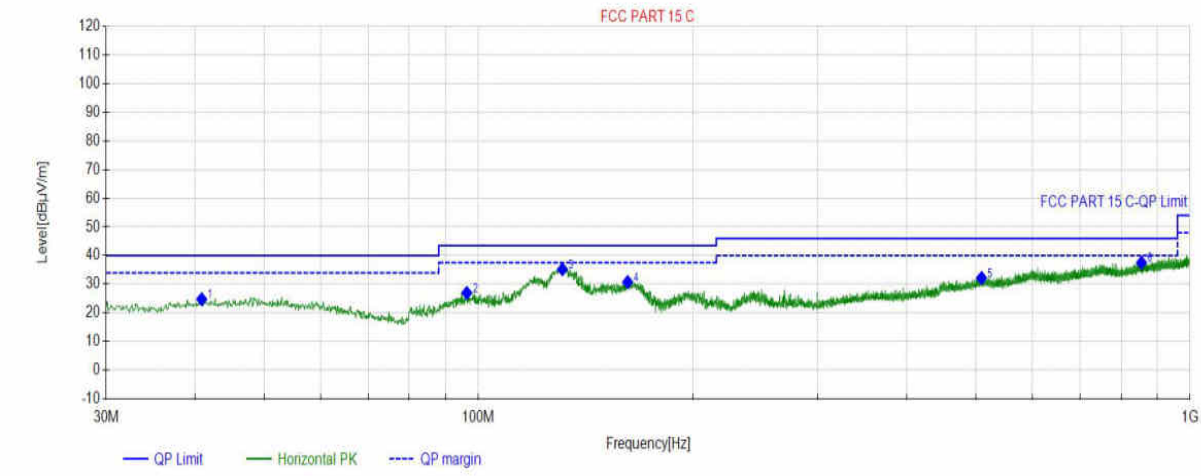
Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	47.7528	22.28	31.06	40.00	8.94	100	82	Vertical
2	147.8668	17.14	31.83	43.50	11.67	100	27	Vertical
3	212.1842	20.28	32.77	43.50	10.73	100	198	Vertical
4	296.4856	21.62	31.04	46.00	14.96	100	193	Vertical
5	369.2429	24.50	31.90	46.00	14.10	100	179	Vertical
6	995.5376	35.28	39.89	54.00	14.11	100	245	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 47%
Model:	Xenon MP16	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-29 22:50:39

Test Graph



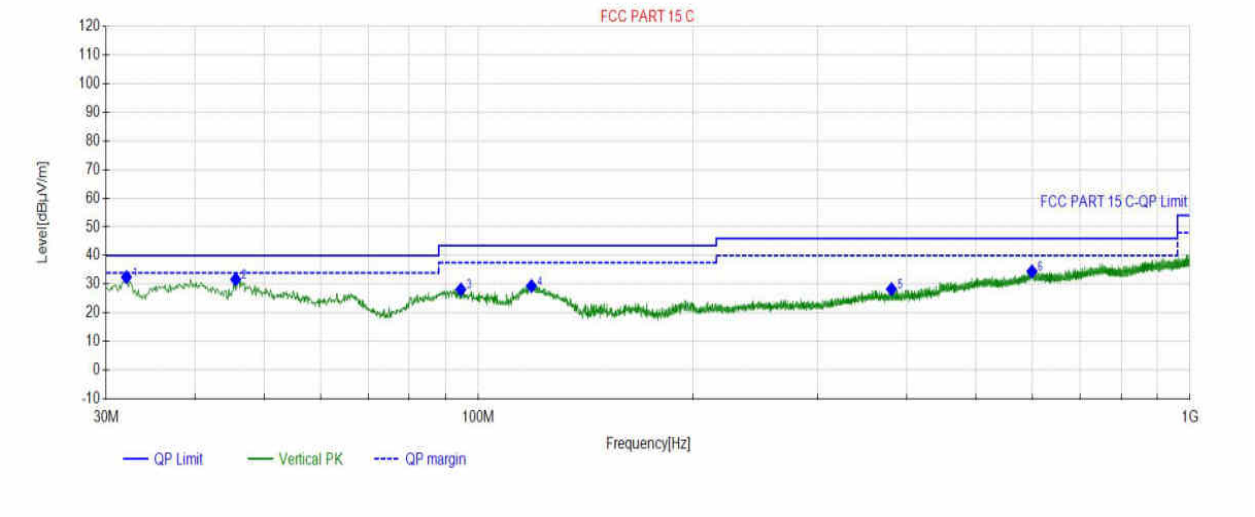
Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	40.8651	21.31	24.77	40.00	15.23	100	56	Horizontal
2	96.3546	19.92	26.99	43.50	16.51	100	89	Horizontal
3	131.2781	17.25	35.21	43.50	8.29	100	301	Horizontal
4	162.1272	17.59	30.77	43.50	12.73	100	134	Horizontal
5	509.3249	27.64	32.18	46.00	13.82	100	222	Horizontal
6	854.6795	33.34	37.53	46.00	8.47	100	316	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 47%
Model:	Xenon MP16	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-29 22:51:23

Test Graph



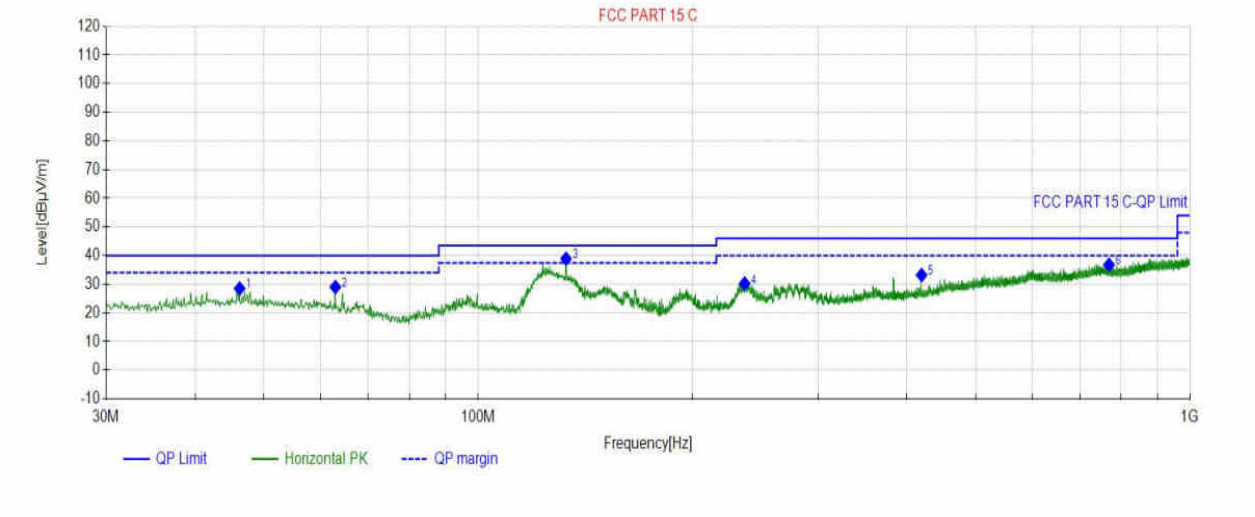
Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBμV/m)	QP Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	32.0372	18.77	32.47	40.00	7.53	100	113	Vertical
2	45.6186	22.18	31.69	40.00	8.31	100	27	Vertical
3	94.5115	19.48	28.15	43.50	15.35	100	266	Vertical
4	118.7639	18.60	29.34	43.50	14.16	100	332	Vertical
5	380.6901	24.65	28.27	46.00	17.73	100	358	Vertical
6	599.6410	30.10	34.45	46.00	11.55	100	130	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-27 23:54:51

Test Graph



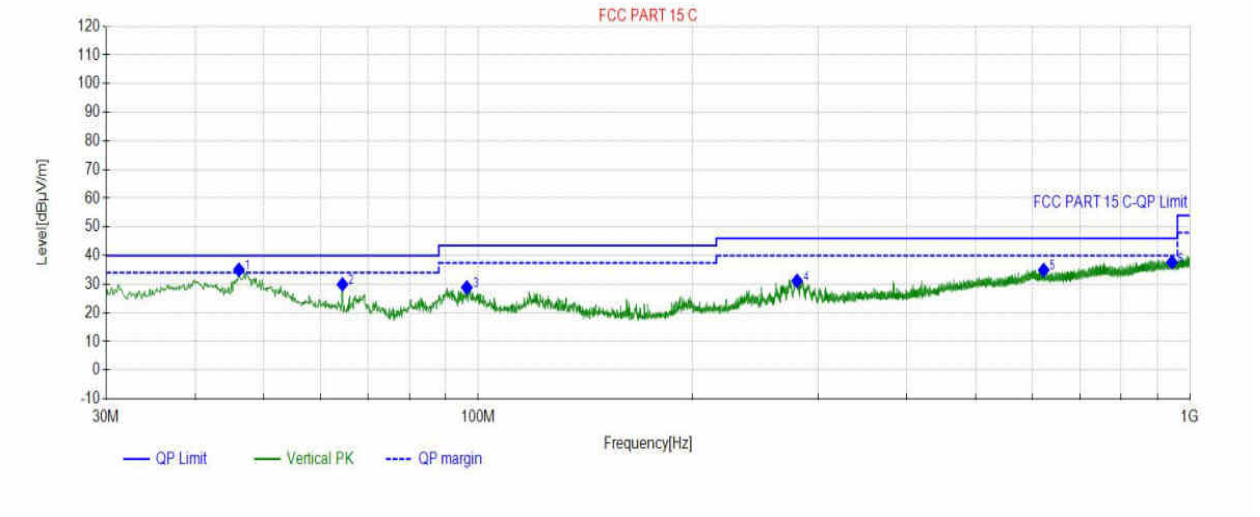
Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	46.2006	22.21	28.51	40.00	11.49	100	334	Horizontal
2	62.9833	20.06	29.02	40.00	10.98	100	183	Horizontal
3	132.8303	17.19	38.92	43.50	4.58	100	133	Horizontal
4	236.7277	20.97	30.23	46.00	15.77	100	252	Horizontal
5	419.6880	25.45	33.20	46.00	12.80	100	109	Horizontal
6	769.5050	32.37	36.78	46.00	9.22	100	0	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-27 23:55:35

Test Graph



Final Data List								
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	46.1036	22.20	35.05	40.00	4.95	100	358	Vertical
2	64.4384	19.60	29.95	40.00	10.05	100	112	Vertical
3	96.3546	19.92	28.85	43.50	14.65	100	227	Vertical
4	280.4790	21.52	31.17	46.00	14.83	100	97	Vertical
5	622.9233	30.14	34.94	46.00	11.06	100	27	Vertical
6	943.3463	34.65	37.68	46.00	8.32	100	55	Vertical

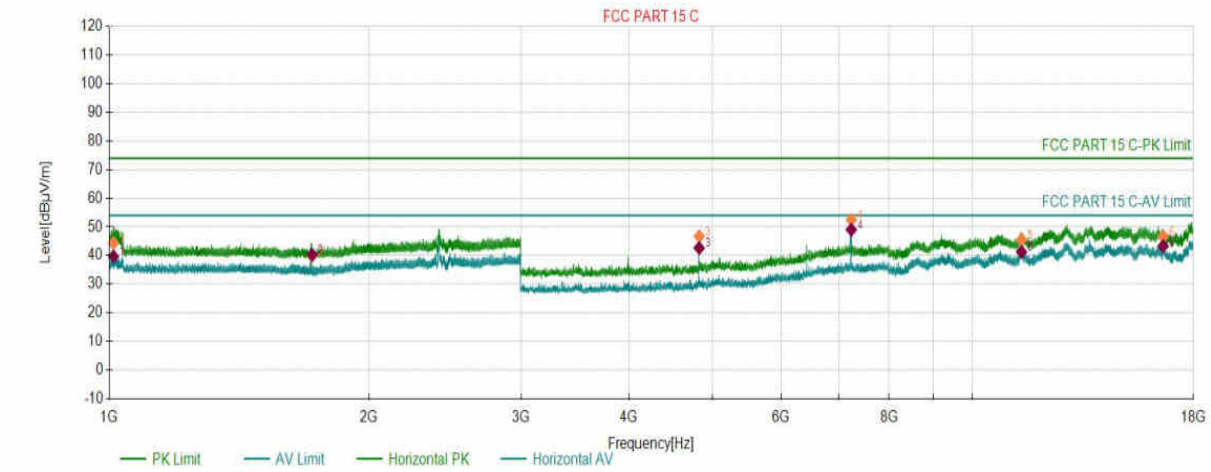
APPENDIX B – Radiated Emission Above 1GHz Test Data

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-24 09:56:42

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1011.8006	1.62	44.36	74.00	29.64	150	155	Horizontal
2	1717.8359	3.42	39.88	74.00	34.12	150	267	Horizontal
3	4823.3412	-9.82	46.70	74.00	27.30	150	182	Horizontal
4	7236.9618	-1.39	52.49	74.00	21.51	150	134	Horizontal
5	11393.6697	6.37	45.52	74.00	28.48	150	14	Horizontal
6	16620.6810	11.19	46.71	74.00	27.29	150	155	Horizontal

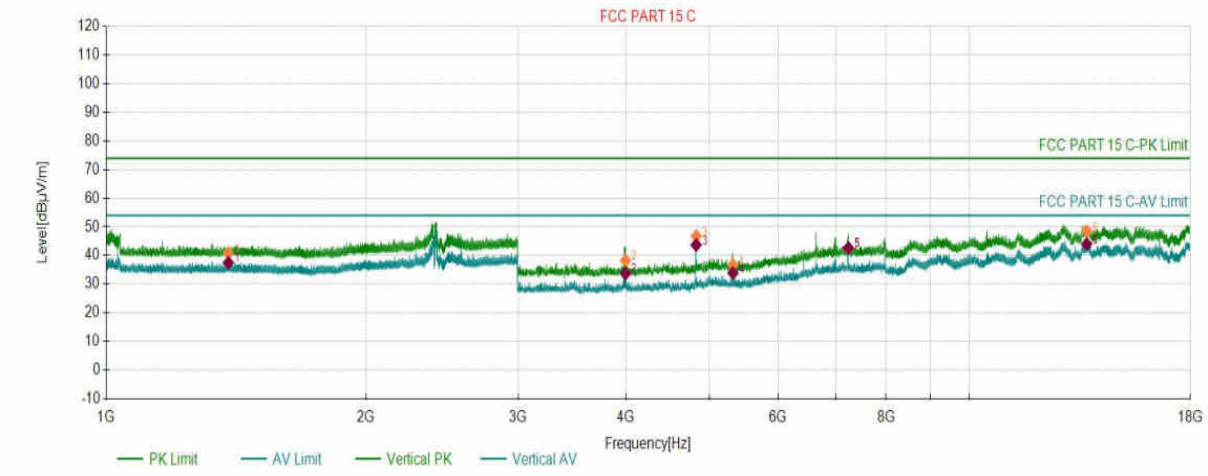
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1011.8006	1.62	39.70	54.00	14.30	150	155	Horizontal
2	1717.8359	3.42	40.35	54.00	13.65	150	267	Horizontal
3	4823.3412	-9.82	42.66	54.00	11.34	150	182	Horizontal
4	7236.9618	-1.39	49.03	54.00	4.97	150	134	Horizontal
5	11393.6697	6.37	41.30	54.00	12.70	150	14	Horizontal
6	16620.6810	11.19	43.31	54.00	10.69	150	155	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-24 09:58:15

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1385.1193	3.17	40.80	74.00	33.20	150	210	Vertical
2	3993.7997	-13.31	38.27	74.00	35.73	150	264	Vertical
3	4823.3412	-9.82	46.80	74.00	27.20	150	180	Vertical
4	5319.8660	-8.24	36.71	74.00	37.29	150	104	Vertical
5	7237.7119	-1.38	42.47	74.00	31.53	150	142	Vertical
6	13667.7834	10.75	48.45	74.00	25.55	150	0	Vertical

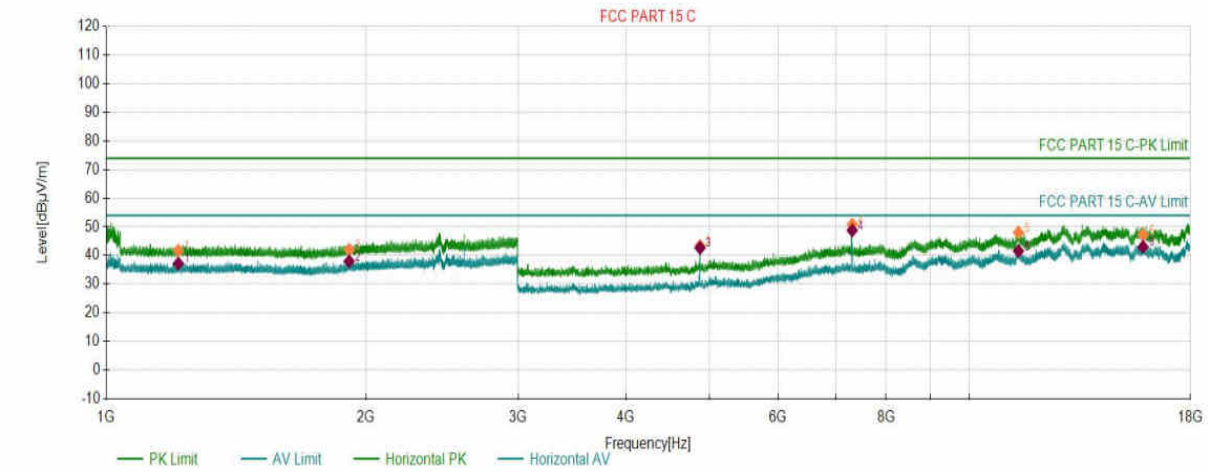
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1385.1193	3.17	37.48	54.00	16.52	150	210	Vertical
2	3993.7997	-13.31	33.69	54.00	20.31	150	264	Vertical
3	4823.3412	-9.82	43.69	54.00	10.31	150	180	Vertical
4	5319.8660	-8.24	33.89	54.00	20.11	150	104	Vertical
5	7237.7119	-1.38	42.66	54.00	11.34	150	142	Vertical
6	13667.7834	10.75	44.00	54.00	10.00	150	0	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-24 10:16:25

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1212.3106	2.33	41.73	74.00	32.27	150	215	Horizontal
2	1911.8456	4.47	42.05	74.00	31.95	150	215	Horizontal
3	4873.5937	-9.50	43.36	74.00	30.64	150	175	Horizontal
4	7312.7156	-1.19	50.84	74.00	23.16	150	166	Horizontal
5	11390.6695	6.32	48.05	74.00	25.95	150	8	Horizontal
6	15878.8939	12.12	47.17	74.00	26.83	150	319	Horizontal

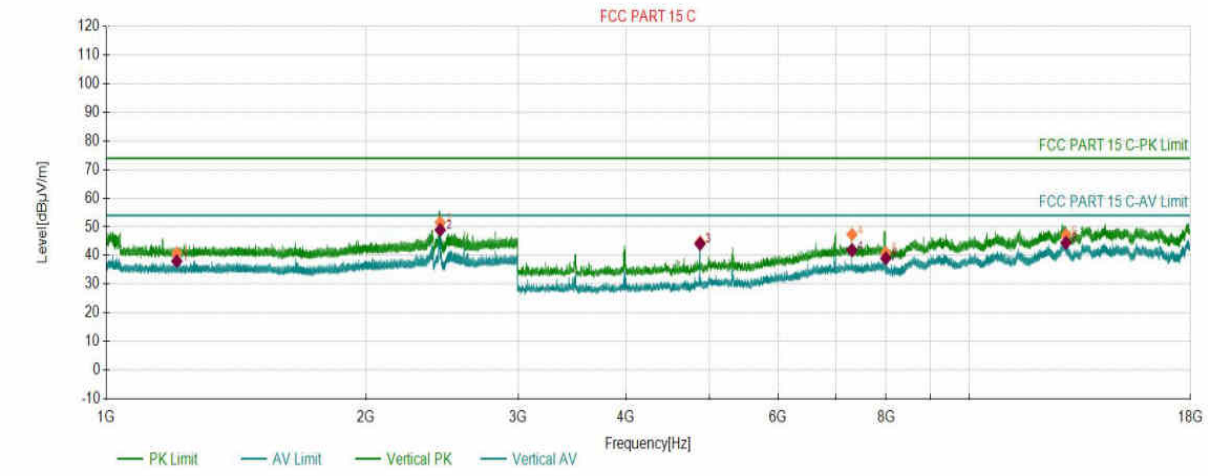
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1212.3106	2.33	37.23	54.00	16.77	150	215	Horizontal
2	1911.8456	4.47	38.01	54.00	15.99	150	215	Horizontal
3	4873.5937	-9.50	42.67	54.00	11.33	150	175	Horizontal
4	7312.7156	-1.19	48.79	54.00	5.21	150	166	Horizontal
5	11390.6695	6.32	41.61	54.00	12.39	150	8	Horizontal
6	15878.8939	12.12	43.01	54.00	10.99	150	319	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2437	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：15		

Start of Test: 2024-02-24 10:18:07

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1207.2104	2.31	40.79	74.00	33.21	150	13	Vertical
2	2437.3719	7.34	51.54	74.00	22.46	150	50	Vertical
3	4873.5937	-9.50	44.66	74.00	29.34	150	165	Vertical
4	7308.9654	-1.16	47.37	74.00	26.63	150	146	Vertical
5	7997.4999	-0.57	40.94	74.00	33.06	150	41	Vertical
6	12929.7465	9.37	47.14	74.00	26.86	150	7	Vertical

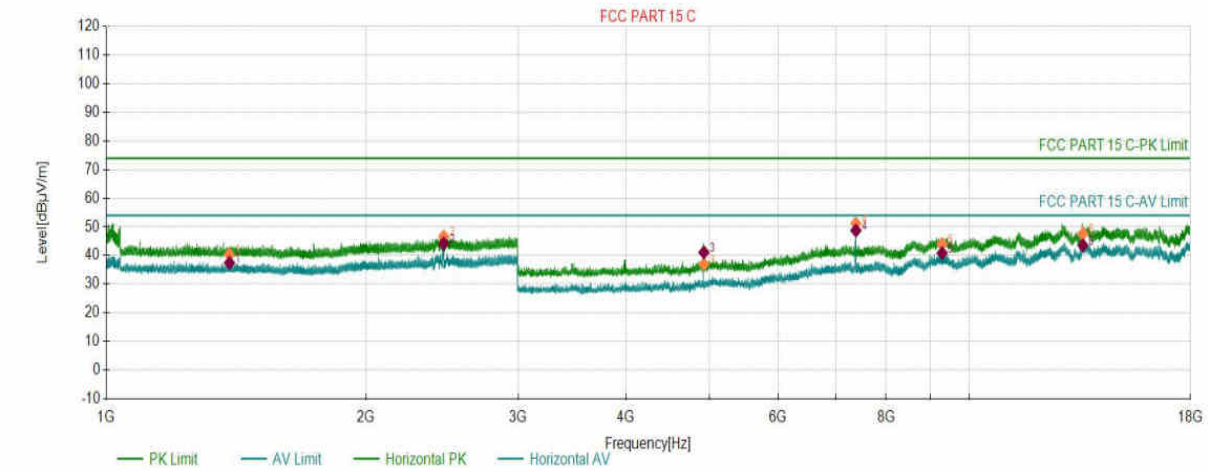
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1207.2104	2.31	38.04	54.00	15.96	150	13	Vertical
2	2437.3719	7.34	48.95	54.00	5.05	150	50	Vertical
3	4873.5937	-9.50	44.10	54.00	9.90	150	165	Vertical
4	7308.9654	-1.16	41.90	54.00	12.10	150	146	Vertical
5	7997.4999	-0.57	39.02	54.00	14.98	150	41	Vertical
6	12929.7465	9.37	44.45	54.00	9.55	150	7	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：13		

Start of Test: 2024-02-24 10:42:32

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1389.3195	3.19	40.36	74.00	33.64	150	352	Horizontal
2	2459.9730	7.48	46.69	74.00	27.31	150	221	Horizontal
3	4923.8462	-9.16	37.01	74.00	36.99	150	176	Horizontal
4	7384.7192	-1.63	51.20	74.00	22.80	150	158	Horizontal
5	9292.8146	3.21	44.02	74.00	29.98	150	358	Horizontal
6	13526.7763	10.29	47.62	74.00	26.38	150	52	Horizontal

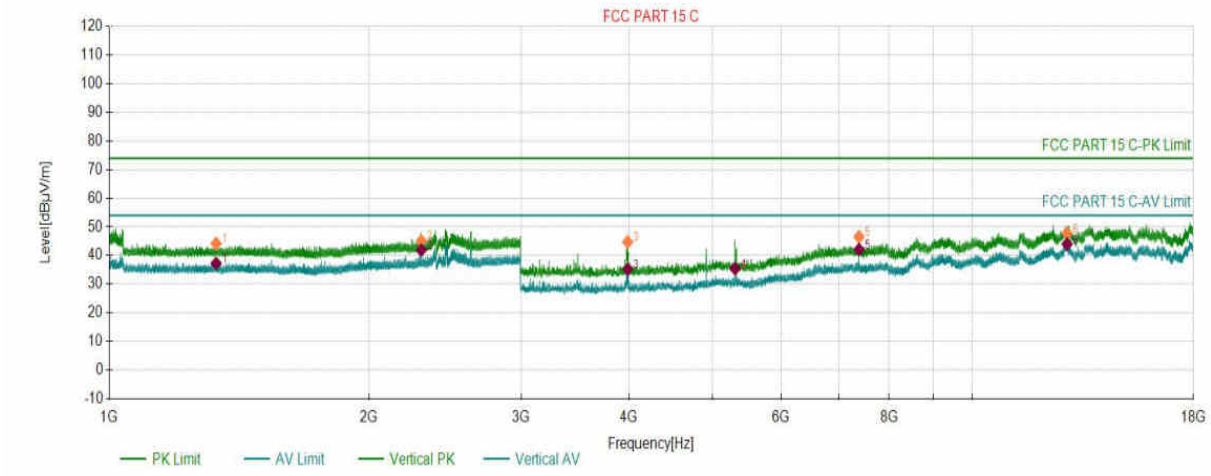
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1389.3195	3.19	37.43	54.00	16.57	150	352	Horizontal
2	2459.9730	7.48	44.22	54.00	9.78	150	221	Horizontal
3	4923.8462	-9.16	41.11	54.00	12.89	150	176	Horizontal
4	7384.7192	-1.63	48.74	54.00	5.26	150	158	Horizontal
5	9292.8146	3.21	40.87	54.00	13.13	150	358	Horizontal
6	13526.7763	10.29	43.58	54.00	10.42	150	52	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：13		

Start of Test: 2024-02-24 10:47:51

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1330.1165	2.83	44.24	74.00	29.76	150	251	Vertical
2	2298.6649	6.14	45.09	74.00	28.91	150	185	Vertical
3	3986.2993	-13.36	44.78	74.00	29.22	150	29	Vertical
4	5307.8654	-8.23	35.30	74.00	38.70	150	327	Vertical
5	7386.9693	-1.64	46.56	74.00	27.44	150	230	Vertical
6	12865.9933	9.39	47.70	74.00	26.30	150	221	Vertical

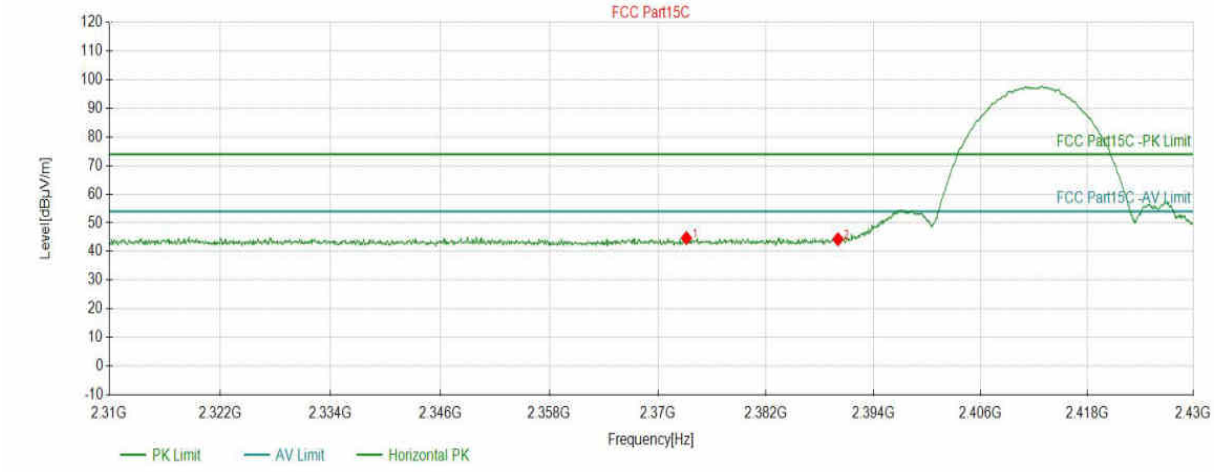
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1330.1165	2.83	37.30	54.00	16.70	150	251	Vertical
2	2298.6649	6.14	41.89	54.00	12.11	150	185	Vertical
3	3986.2993	-13.36	35.20	54.00	18.80	150	29	Vertical
4	5307.8654	-8.23	35.48	54.00	18.52	150	327	Vertical
5	7386.9693	-1.64	42.11	54.00	11.89	150	230	Vertical
6	12865.9933	9.39	44.01	54.00	9.99	150	221	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-24 10:56:20

Test Graph



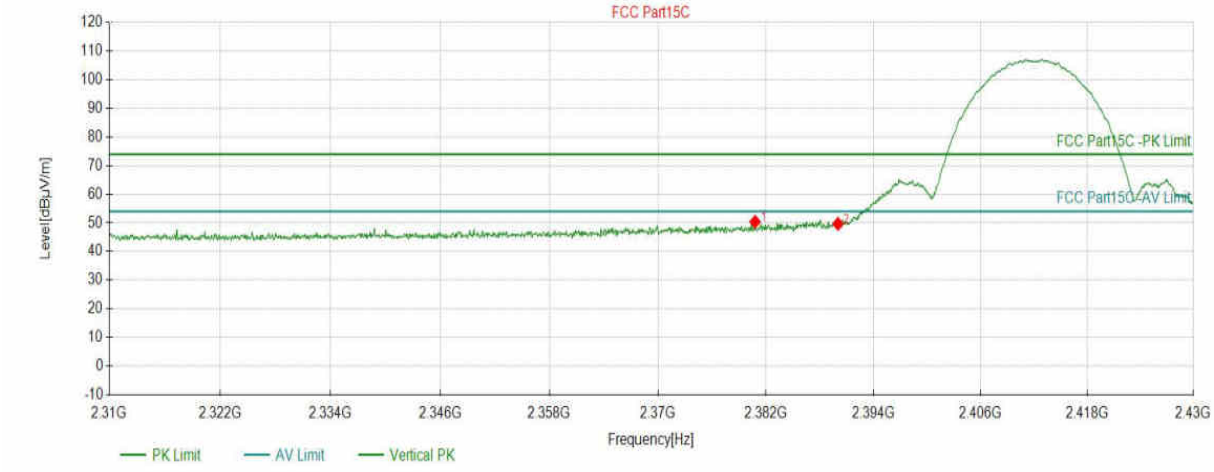
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2373.1516	44.70	5.67	74.00	29.30	150	121	PK	Horizont
2	2390.0200	44.28	5.65	74.00	29.72	150	140	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-24 11:00:34

Test Graph



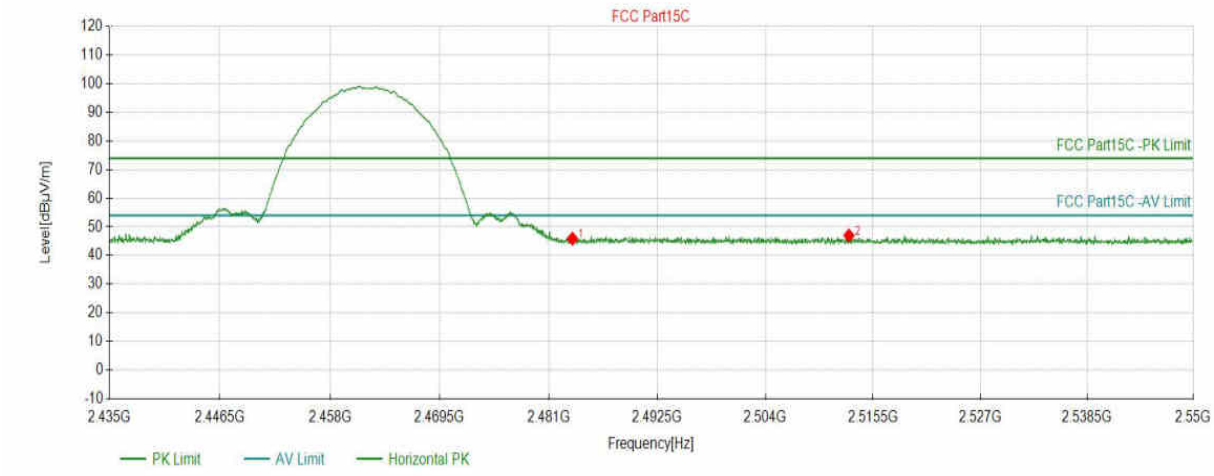
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2380.7754	50.37	5.66	74.00	23.63	150	46	PK	Vertical
2	2390.0200	49.67	5.65	74.00	24.33	150	54	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-24 11:03:29

Test Graph



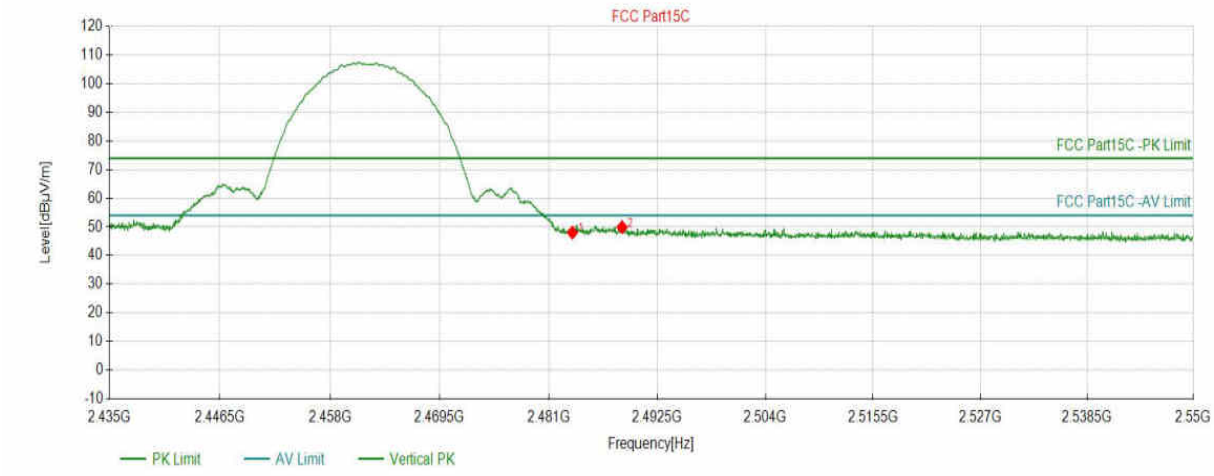
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	45.86	6.24	74.00	28.14	150	22	PK	Horizont
2	2512.9193	47.01	6.39	74.00	26.99	150	199	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11B_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-24 11:04:29

Test Graph



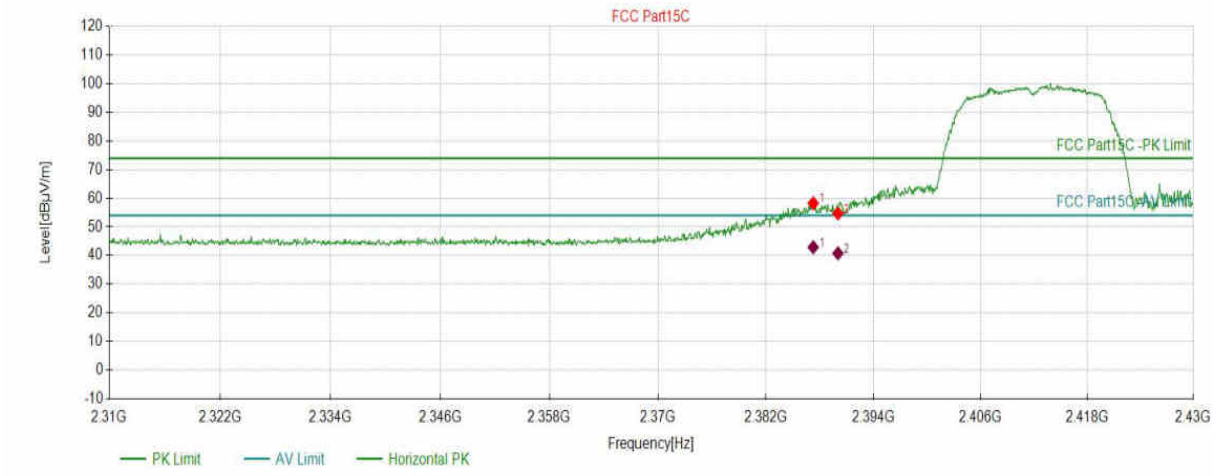
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	48.03	6.24	74.00	25.97	150	43	PK	Vertical
2	2488.7613	49.90	6.28	74.00	24.10	150	43	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11G_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：12		

Start of Test: 2024-02-24 11:16:54

Test Graph



Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2387.2586	58.23	5.65	74.00	15.77	150	136	PK	Horizont
2	2390.0200	54.70	5.65	74.00	19.30	150	118	PK	Horizont

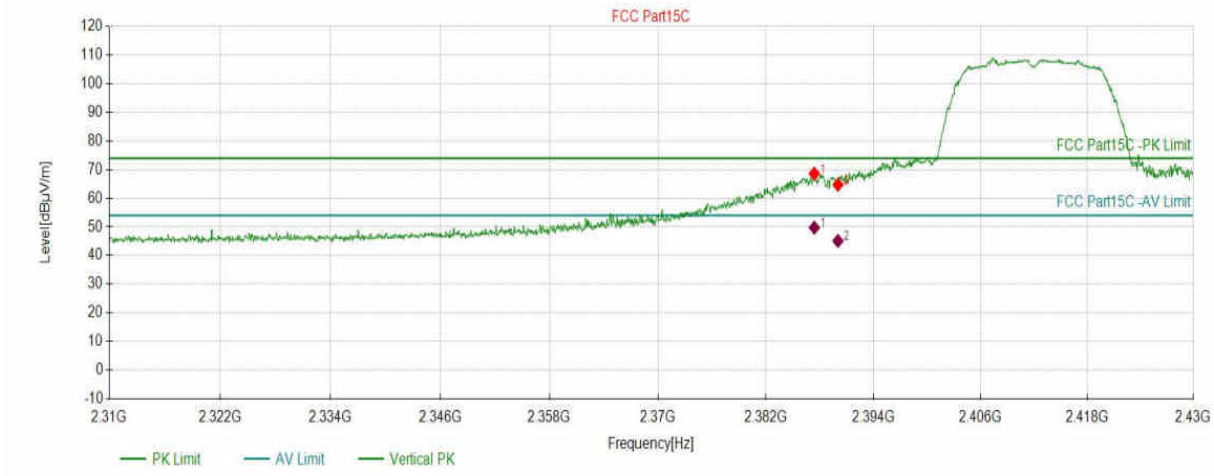
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2387.2586	5.65	42.91	54.00	11.09	150	136	Horizontal
2	2390.0200	5.65	40.77	54.00	13.23	150	118	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11G_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：12		

Start of Test: 2024-02-24 11:17:43

Test Graph



Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2387.3787	68.57	5.65	74.00	5.43	150	55	PK	Vertical
2	2390.0200	64.70	5.65	74.00	9.30	150	55	PK	Vertical

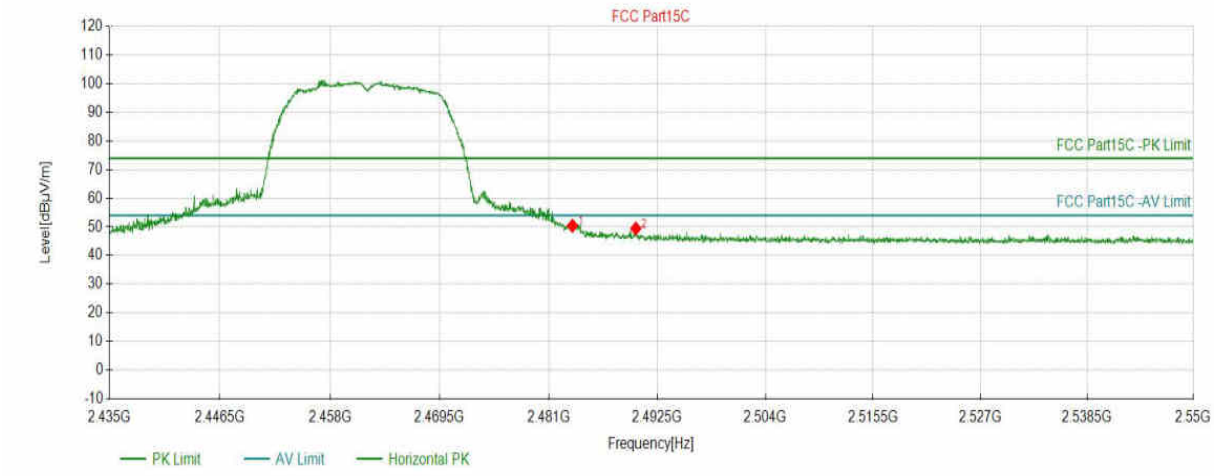
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2387.3787	5.65	49.74	54.00	4.26	150	55	Vertical
2	2390.0200	5.65	45.10	54.00	8.90	150	55	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11G_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：11		

Start of Test: 2024-02-24 11:27:13

Test Graph



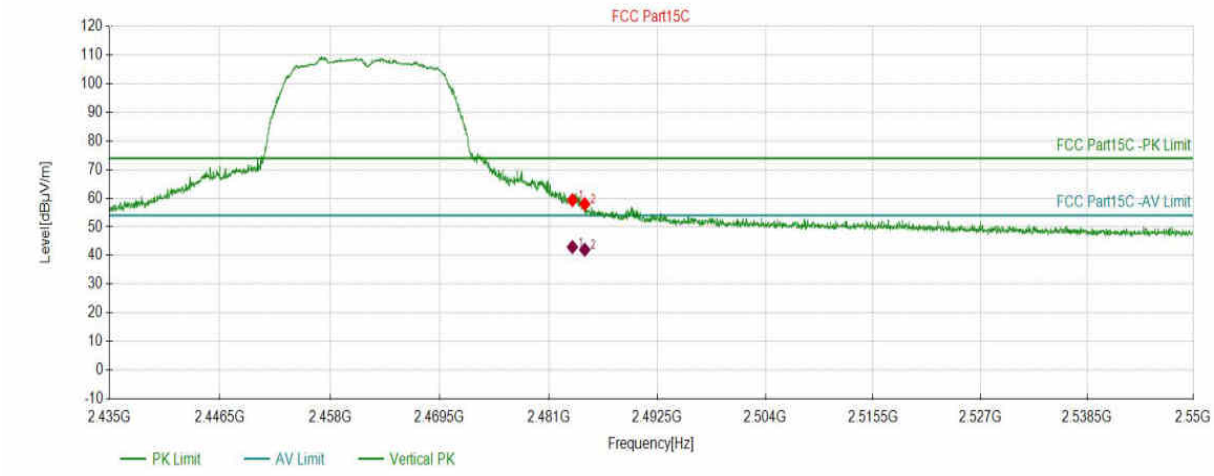
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	50.40	6.24	74.00	23.60	150	330	PK	Horizont
2	2490.2184	49.43	6.29	74.00	24.57	150	301	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11G_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：11		

Start of Test: 2024-02-24 11:28:13

Test Graph



Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	59.35	6.24	74.00	14.65	150	39	PK	Vertical
2	2484.8116	57.98	6.25	74.00	16.02	150	143	PK	Vertical

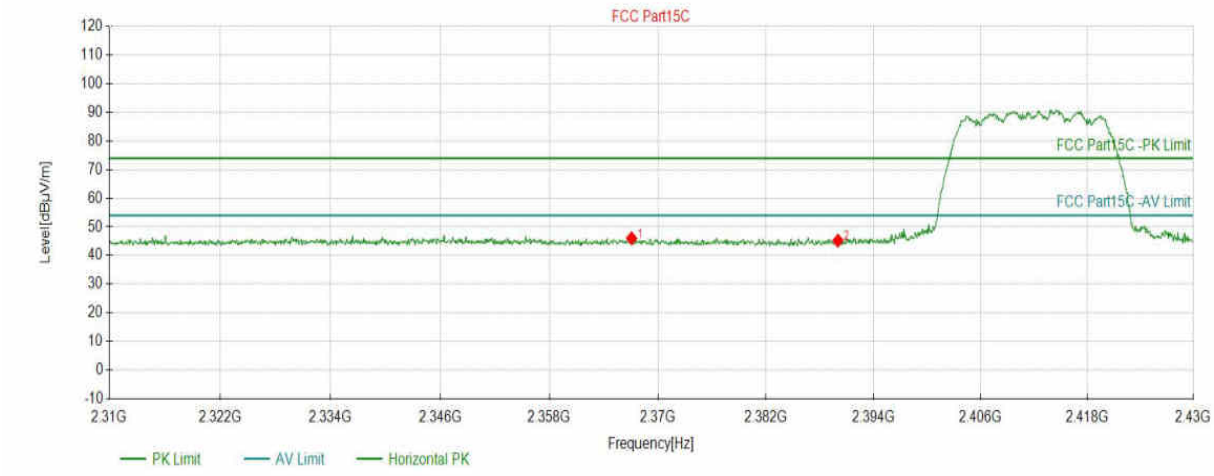
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2483.5078	6.24	42.99	54.00	11.01	150	39	Vertical
2	2484.8116	6.25	42.03	54.00	11.97	150	143	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N20_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：6		

Start of Test: 2024-02-24 11:36:36

Test Graph



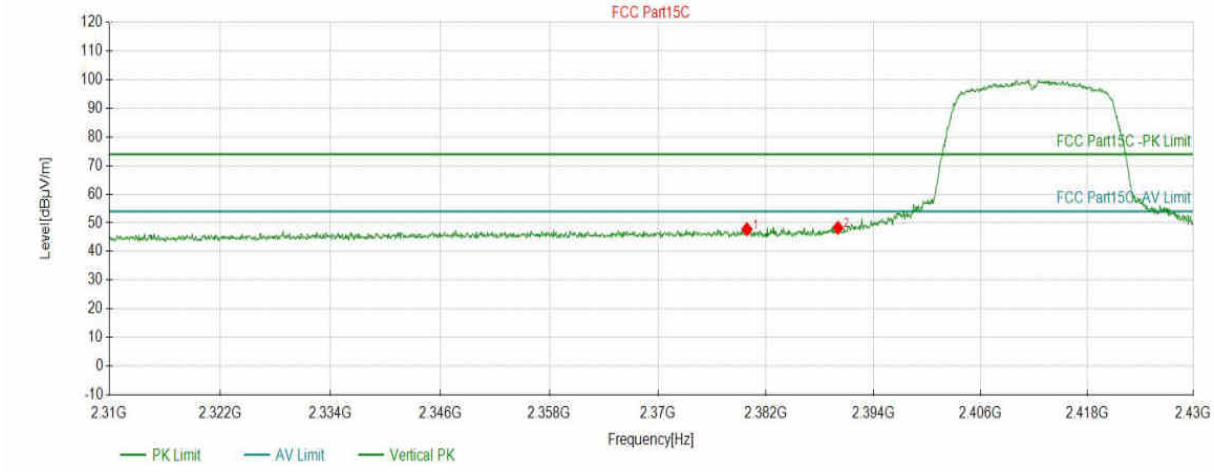
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2367.0885	46.02	5.67	74.00	27.98	150	168	PK	Horizont
2	2390.0200	45.22	5.65	74.00	28.78	150	206	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N20_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：6		

Start of Test: 2024-02-24 11:37:24

Test Graph



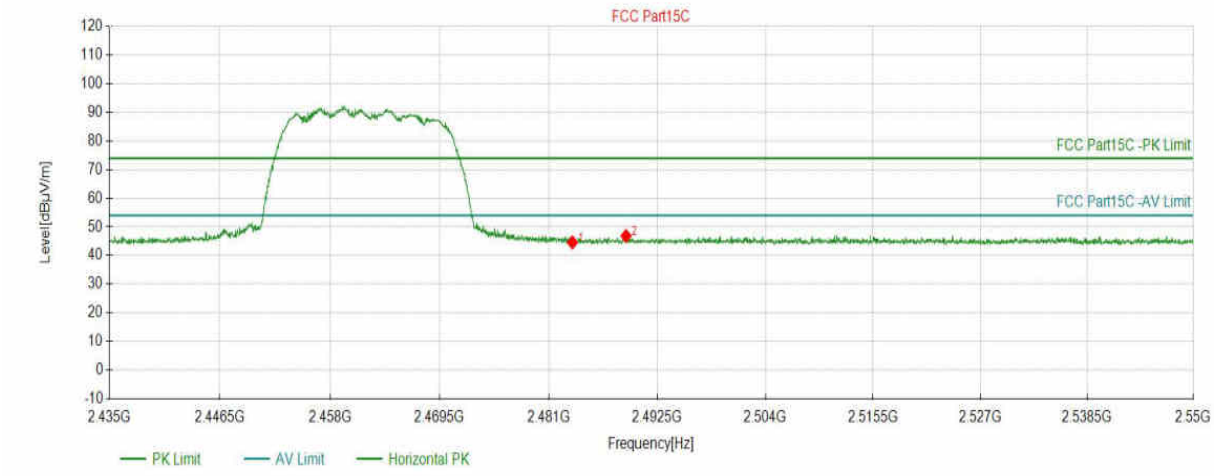
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2379.8749	47.81	5.66	74.00	26.19	150	219	PK	Vertical
2	2390.0200	48.26	5.65	74.00	25.74	150	229	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N20_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：6		

Start of Test: 2024-02-24 11:40:09

Test Graph



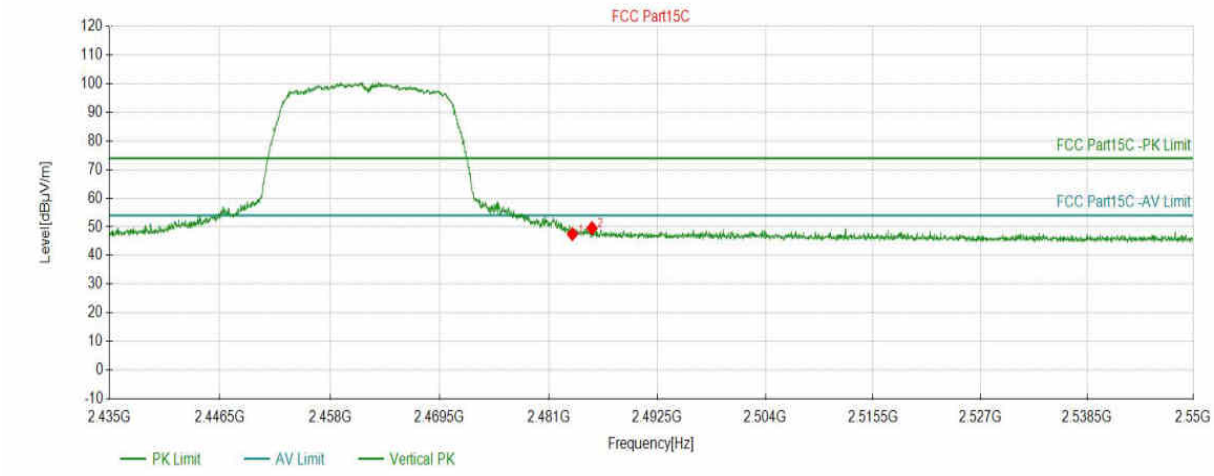
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	44.59	6.24	74.00	29.41	150	298	PK	Horizont
2	2489.1831	46.83	6.28	74.00	27.17	150	147	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N20_2462	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：6		

Start of Test: 2024-02-24 11:41:09

Test Graph



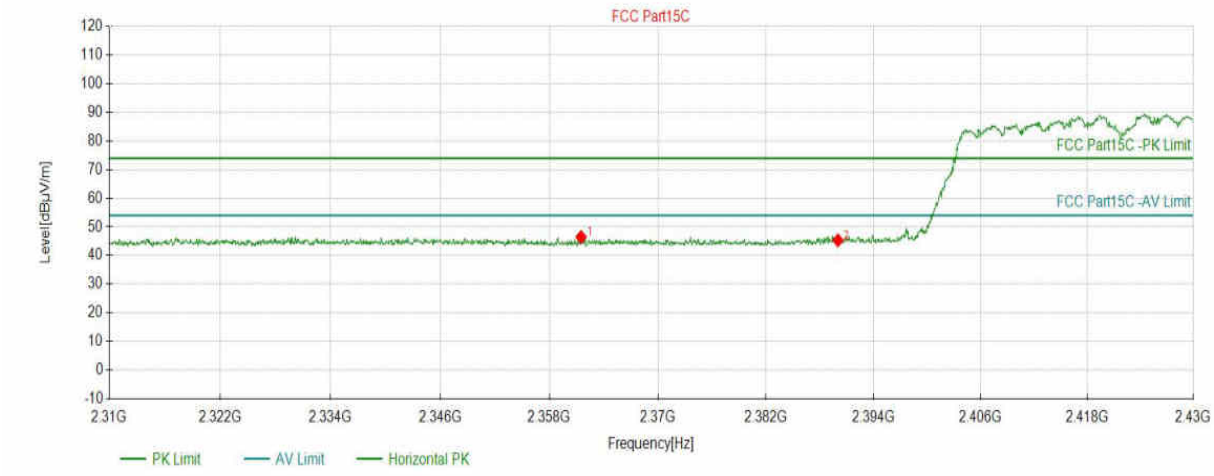
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	47.47	6.24	74.00	26.53	150	138	PK	Vertical
2	2485.5785	49.57	6.26	74.00	24.43	150	215	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N40_2422	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：6		

Start of Test: 2024-02-24 11:44:29

Test Graph



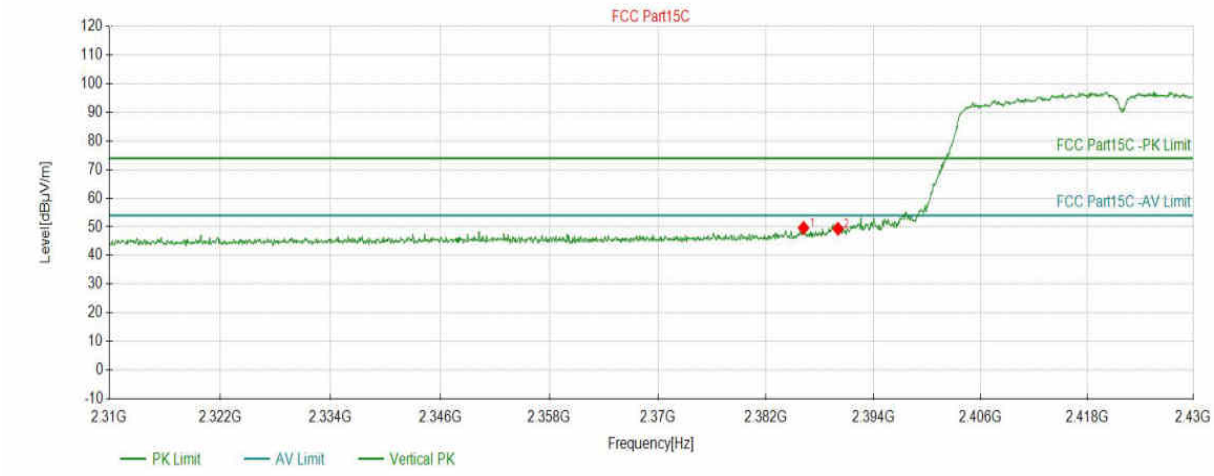
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2361.5058	46.49	5.68	74.00	27.51	150	173	PK	Horizont
2	2390.0200	45.31	5.65	74.00	28.69	150	152	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N40_2422	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：6		

Start of Test: 2024-02-24 11:45:10

Test Graph



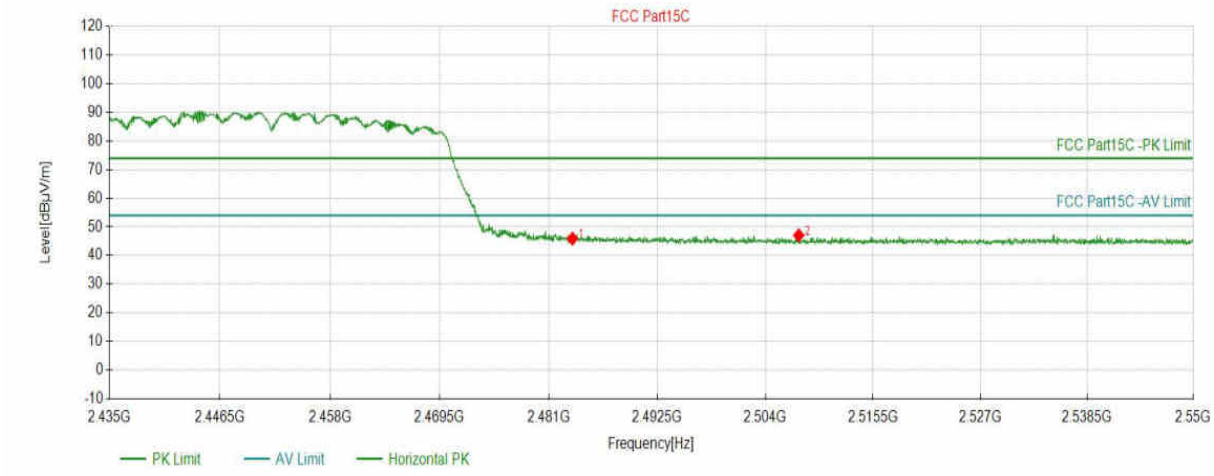
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2386.1781	49.64	5.65	74.00	24.36	150	210	PK	Vertical
2	2390.0200	49.34	5.65	74.00	24.66	150	138	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N40_2452	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：7		

Start of Test: 2024-02-24 11:47:43

Test Graph



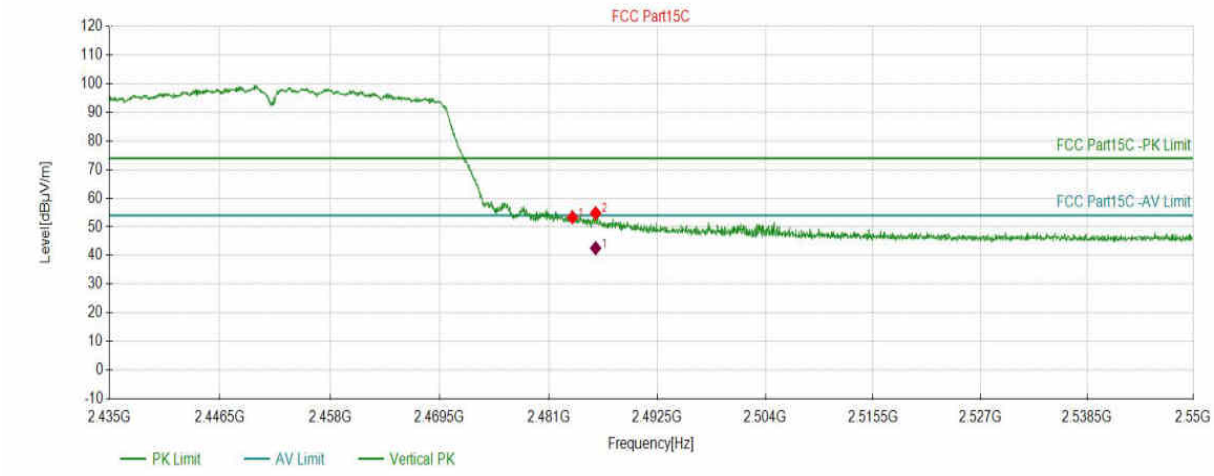
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	45.90	6.24	74.00	28.10	150	300	PK	Horizont
2	2507.5509	47.06	6.38	74.00	26.94	150	274	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	22.7℃ 64%
Model:	Xenon MP24	SN:	
Mode:	11N40_2452	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:	Power set：7		

Start of Test: 2024-02-24 11:48:44

Test Graph



Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5078	53.34	6.24	74.00	20.66	150	206	PK	Vertical
2	2485.9620	54.79	6.26	74.00	19.21	150	206	PK	Vertical

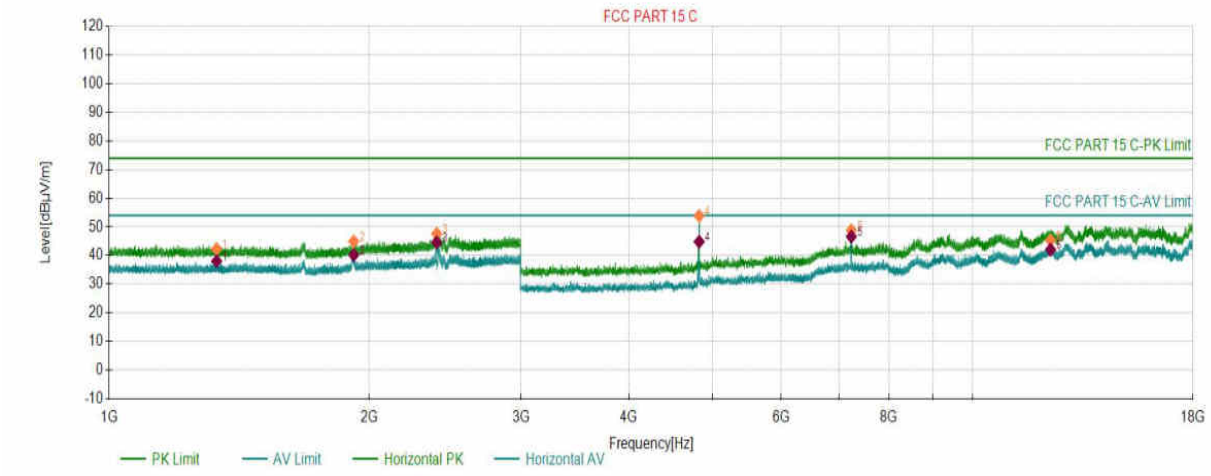
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2485.9620	6.26	42.56	54.00	11.44	150	206	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	22.0℃ 42%
Model:	Xenon MP16	SN:	
Mode:	11B_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-28 00:32:41

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1331.9166	2.84	42.27	74.00	31.73	150	13	Horizontal
2	1920.1460	4.54	44.93	74.00	29.07	150	243	Horizontal
3	2394.9697	7.11	47.58	74.00	26.42	150	194	Horizontal
4	4823.3412	-9.82	53.87	74.00	20.13	150	206	Horizontal
5	7236.9618	-1.39	48.82	74.00	25.18	150	187	Horizontal
6	12311.7156	7.12	45.32	74.00	28.68	150	360	Horizontal

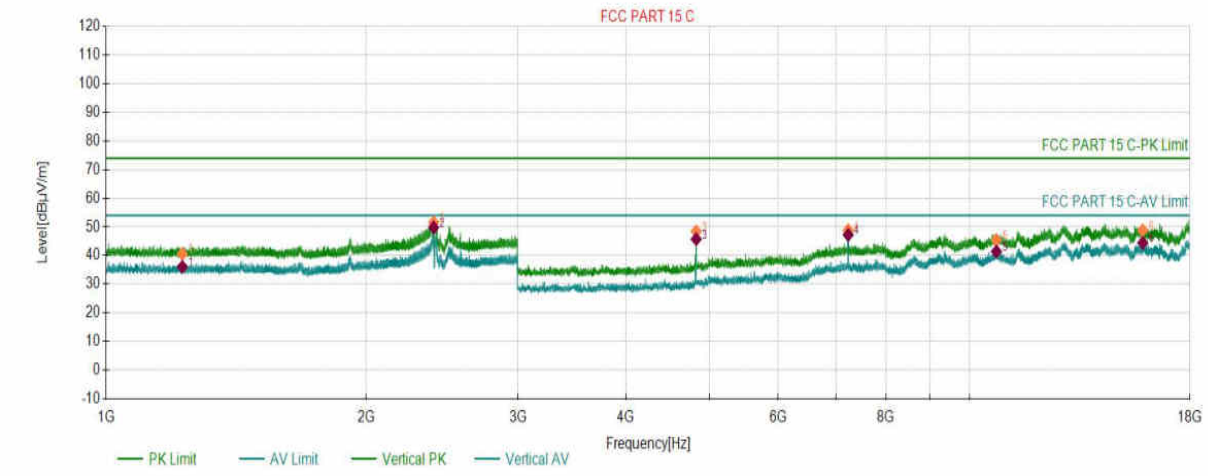
AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1331.9166	2.84	38.03	54.00	15.97	150	13	Horizontal
2	1920.1460	4.54	40.19	54.00	13.81	150	243	Horizontal
3	2394.9697	7.11	44.53	54.00	9.47	150	194	Horizontal
4	4823.3412	-9.82	44.83	54.00	9.17	150	206	Horizontal
5	7236.9618	-1.39	46.60	54.00	7.40	150	187	Horizontal
6	12311.7156	7.12	42.05	54.00	11.95	150	360	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	22.0℃ 42%
Model:	Xenon MP16	SN:	
Mode:	11B_2412	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-28 00:34:21

Test Graph



PK Final Data List								
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1225.4113	2.37	40.62	74.00	33.38	150	63	Vertical
2	2395.0698	7.11	51.59	74.00	22.41	150	138	Vertical
3	4823.3412	-9.82	48.46	74.00	25.54	150	111	Vertical
4	7234.7117	-1.40	48.85	74.00	25.15	150	243	Vertical
5	10741.1371	5.52	45.35	74.00	28.65	150	81	Vertical
6	15866.8933	11.97	48.81	74.00	25.19	150	360	Vertical

AV Final Data List								
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1225.4113	2.37	36.08	54.00	17.92	150	63	Vertical
2	2395.0698	7.11	49.79	54.00	4.21	150	138	Vertical
3	4823.3412	-9.82	45.71	54.00	8.29	150	111	Vertical
4	7234.7117	-1.40	47.20	54.00	6.80	150	243	Vertical
5	10741.1371	5.52	41.44	54.00	12.56	150	81	Vertical
6	15866.8933	11.97	44.45	54.00	9.55	150	360	Vertical