

BLE_BT5.0(2Mbps)_Ant1_2402_0~Reference



BLE_BT5.0(2Mbps)_Ant1_2402_30~1000



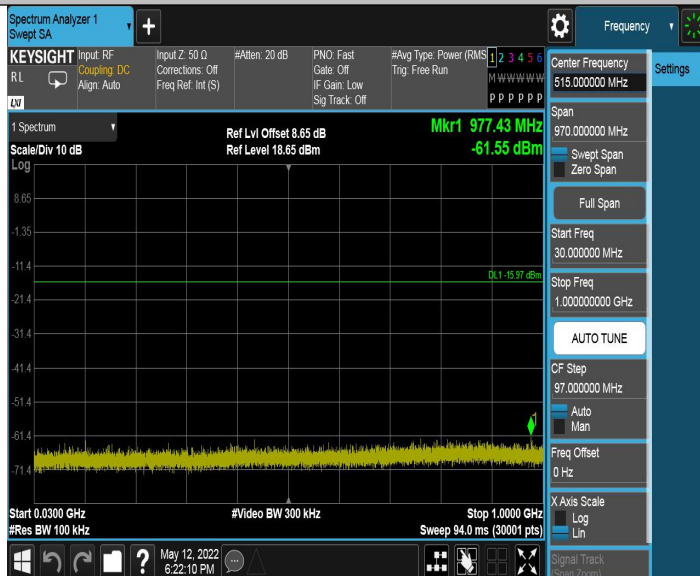
BLE_BT5.0(2Mbps)_Ant1_2402_1000~26500



BLE_BT5.0(2Mbps)_Ant1_2440_0~Reference



BLE_BT5.0(2Mbps)_Ant1_2440_30~1000



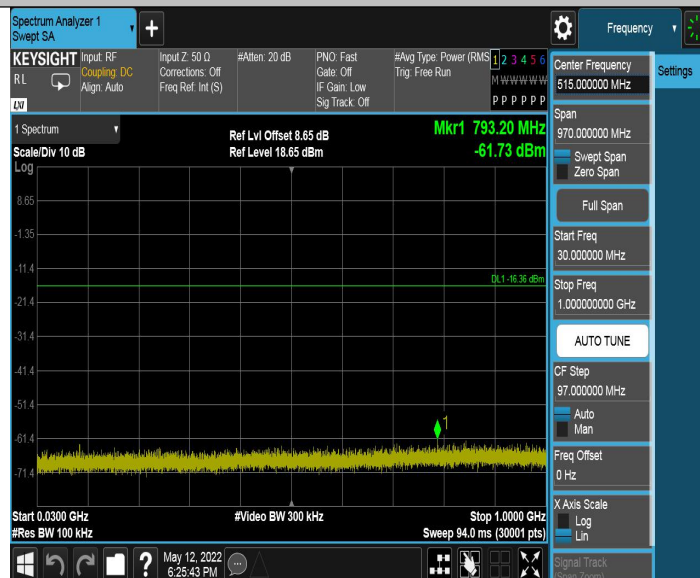
BLE_BT5.0(2Mbps)_Ant1_2440_1000~26500

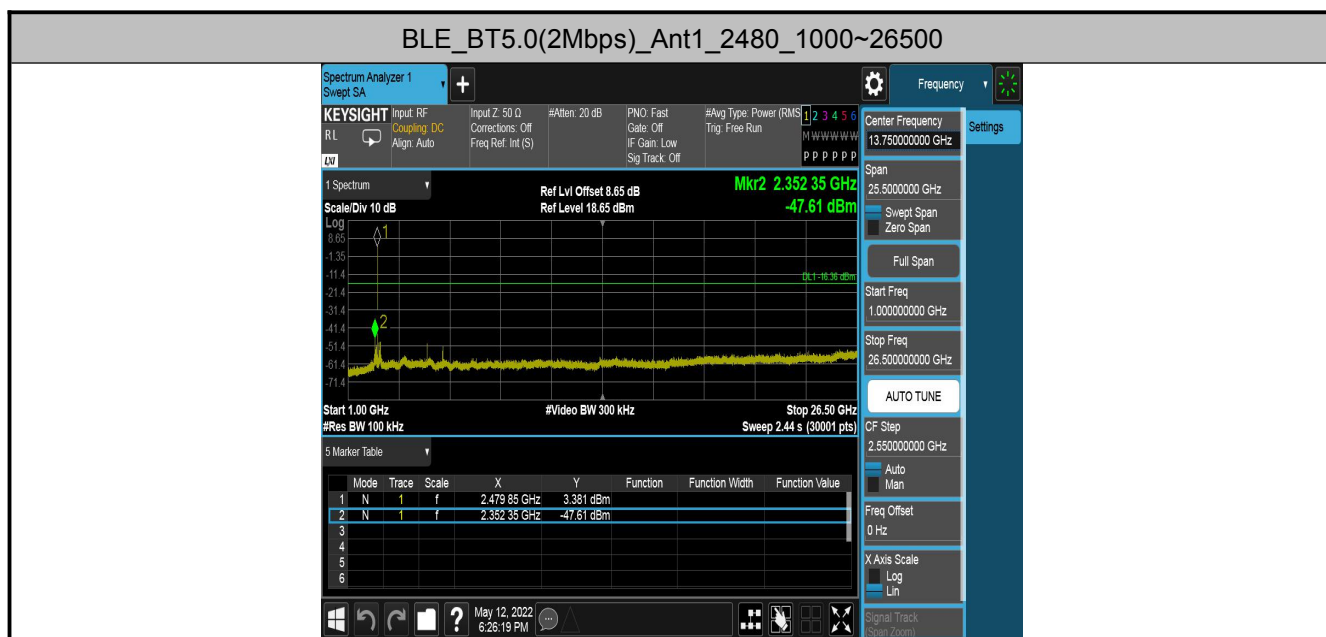


BLE_BT5.0(2Mbps)_Ant1_2480_0~Reference



BLE_BT5.0(2Mbps)_Ant1_2480_30~1000





7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

- Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

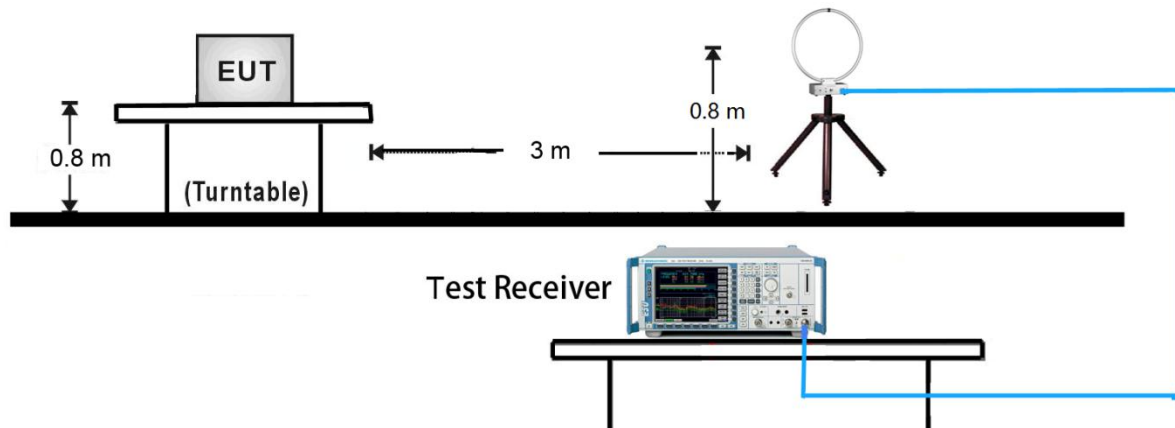
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

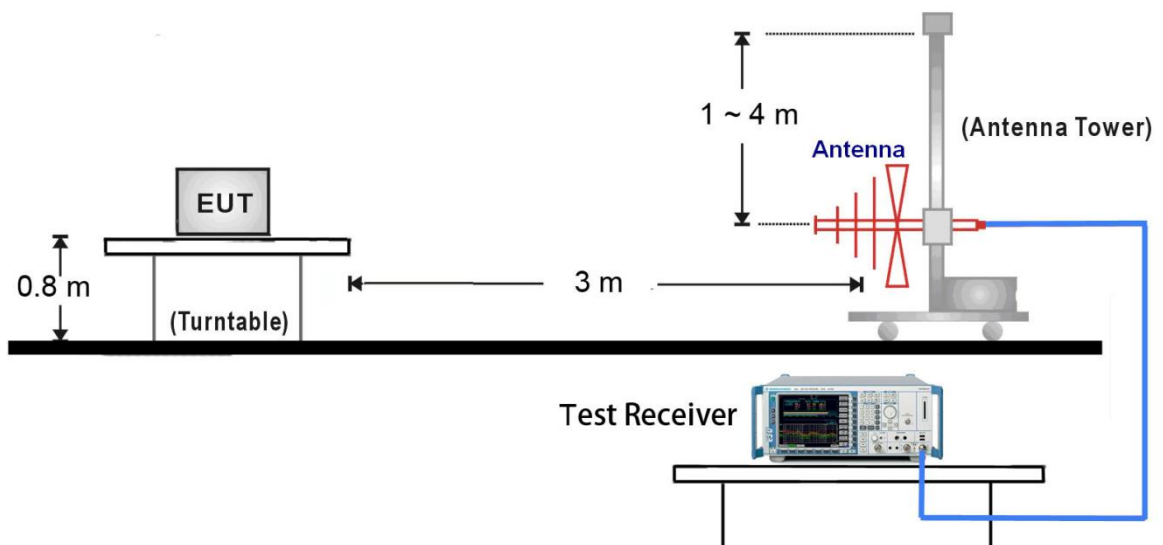
- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW = 3MHz
- Detector = Power Average (RMS)
- Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
- Sweep time = auto
- Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

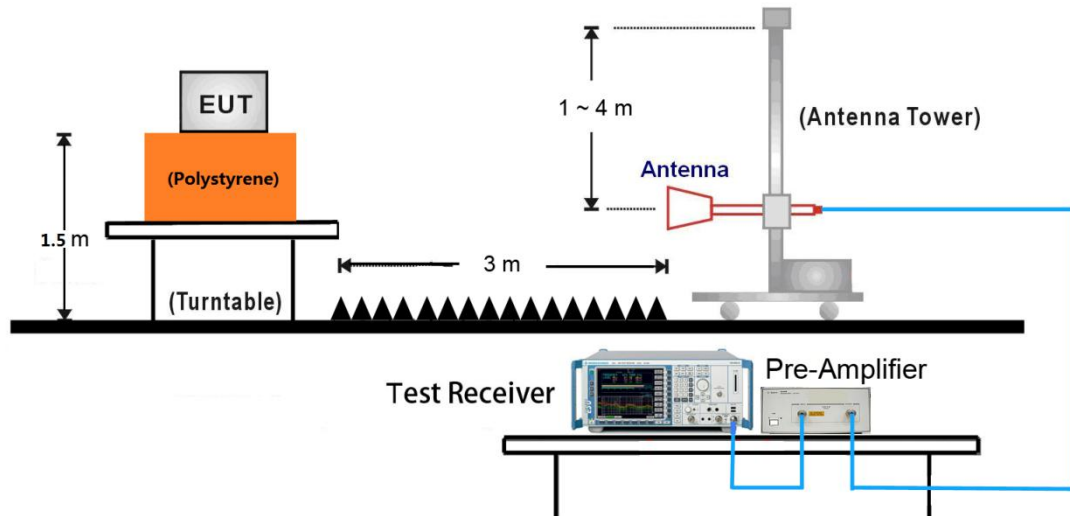
9kHz ~ 30MHz Test Setup:



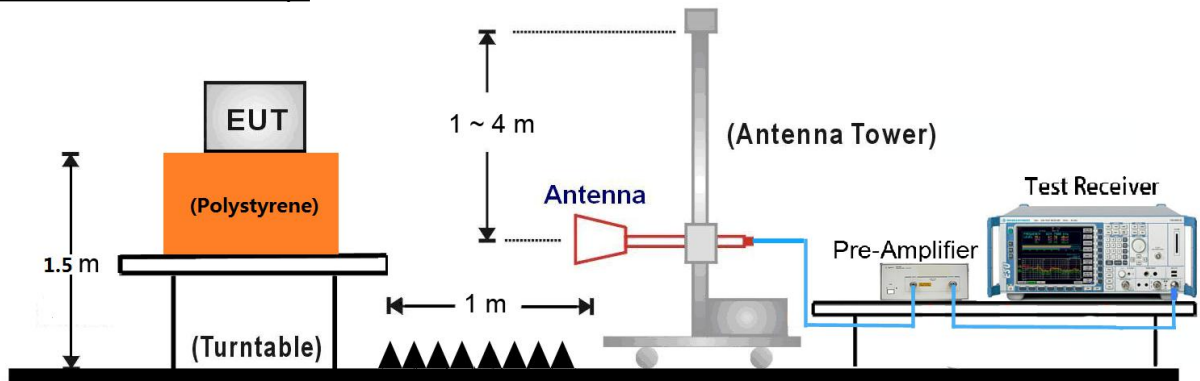
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



7.6.5. Test Result

Test Mode:	BLE(1Mbps)	Test Date:	2022-05-11
Test Channel:	00	Test Engineer:	Amos Xia
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4800	57.6	7.39	74	16.4	Peak	Horizontal
	4800	44.15	7.39	54	9.85	AV	Horizontal
*	6455	47.99	12.21	81.86	33.87	Peak	Horizontal
	7205	48.24	14.84	54	5.76	AV	Horizontal
	7205	57.02	14.84	74	16.98	Peak	Horizontal
*	7620	50.28	14.65	81.86	31.58	Peak	Horizontal
	4805	48.21	7.39	74	25.79	Peak	Vertical
*	6840	48.28	14.17	81.86	33.58	Peak	Vertical
*	7205	52.88	14.84	81.86	28.98	Peak	Vertical
	7360	50.24	14.85	74	23.76	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.86dBμV/m) or 15.209 which is higher.

Test Mode:	BLE(1Mbps)	Test Date:	2022-05-11
Test Channel:	19	Test Engineer:	Amos Xia
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4880	56.45	7.47	74	17.55	Peak	Horizontal
	4880	46.98	7.47	54	7.02	AV	Horizontal
*	5765	46.16	9.87	80.32	34.16	Peak	Horizontal
*	6395	48.06	12.32	80.32	32.26	Peak	Horizontal
	7320	56.27	14.74	74	17.73	Peak	Horizontal
	7320	46.9	14.74	54	7.1	AV	Horizontal
	4880	47.54	7.47	74	26.46	Peak	Vertical
	4880	38.5	7.47	54	15.5	AV	Vertical
*	5685	46.63	9.69	80.32	33.69	Peak	Vertical
*	6530	48.01	12.59	80.32	32.31	Peak	Vertical
	7320	55.28	14.74	74	18.72	Peak	Vertical
	7320	45.54	14.74	54	8.46	AV	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.32dBμV/m) or 15.209 which is higher.

Test Mode:	BLE(1Mbps)	Test Date:	2022-05-11
Test Channel:	39	Test Engineer:	Amos Xia
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4960	55.85	7.58	74	18.15	Peak	Horizontal
	4960	44.72	7.58	54	9.28	AV	Horizontal
*	6200	47.21	11.1	79.79	32.58	Peak	Horizontal
*	7110	50.18	14.64	79.79	29.61	Peak	Horizontal
	7440	54.07	14.66	74	19.93	Peak	Horizontal
	7440	44.6	14.66	54	9.4	AV	Horizontal
	4960	46.9	7.58	74	27.1	Peak	Vertical
*	6200	46.43	11.1	79.79	33.36	Peak	Vertical
*	6420	48.2	12.28	79.79	31.59	Peak	Vertical
	7440	54.87	14.66	74	19.13	Peak	Vertical
	7440	46.91	14.66	54	7.09	AV	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.79dBμV/m) or 15.209 which is higher.

Test Mode:	BLE(2Mbps)	Test Date:	2022-05-11
Test Channel:	00	Test Engineer:	Amos Xia
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4800	57.99	7.39	74	16.01	Peak	Horizontal
	4800	44.61	7.39	54	9.39	AV	Horizontal
*	6625	48.09	82.11	74	25.91	Peak	Horizontal
	7205	57.19	14.84	74	16.81	Peak	Horizontal
	7205	47.84	14.84	54	6.16	AV	Horizontal
*	7415	50.26	82.11	74	23.74	Peak	Horizontal
	4800	49.2	7.39	74	24.8	Peak	Vertical
*	6845	48.64	82.11	74	25.36	Peak	Vertical
*	7205	52.44	82.11	74	21.56	Peak	Vertical
	7540	50.62	14.43	74	23.38	Peak	Vertical
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.11dBμV/m) or 15.209 which is higher.							

Test Mode:	BLE(2Mbps)	Test Date:	2022-05-11
Test Channel:	19	Test Engineer:	Amos Xia
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4880	56.1	7.47	74	17.9	Peak	Horizontal
	4880	46.63	7.47	54	7.37	AV	Horizontal
*	5950	46.86	10.21	81.35	34.49	Peak	Horizontal
*	6335	48.22	12	81.35	33.13	Peak	Horizontal
	7320	55.54	14.74	74	18.46	Peak	Horizontal
	7320	46.3	14.74	54	7.7	AV	Horizontal
	4880	47.59	7.47	74	26.41	Peak	Vertical
*	6020	46.09	10.44	81.35	35.26	Peak	Vertical
*	6615	48.52	13.09	81.35	32.83	Peak	Vertical
	7320	55.23	14.74	74	18.77	Peak	Vertical
	7320	44.9	14.74	54	9.1	AV	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.35dBμV/m) or 15.209 which is higher.

Test Mode:	BLE(2Mbps)	Test Date:	2022-05-11
Test Channel:	39	Test Engineer:	Amos Xia
Remark:	Average measurement was not performed if peak level lower than average limit. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4960	55.57	7.58	74	18.43	Peak	Horizontal
	4960	46.77	7.58	54	7.23	AV	Horizontal
*	5605	44.85	9.63	80.66	35.81	Peak	Horizontal
*	6550	47.8	12.72	80.66	32.86	Peak	Horizontal
	7440	54.57	14.66	74	19.43	Peak	Horizontal
	7440	45.33	14.66	54	8.67	AV	Horizontal
	4960	46.37	7.58	74	27.63	Peak	Vertical
*	5950	46.35	10.21	80.66	34.31	Peak	Vertical
*	6615	48.18	13.09	80.66	32.48	Peak	Vertical
	7440	54.52	14.66	74	19.48	Peak	Vertical
	7440	45.67	14.66	54	8.33	AV	Vertical

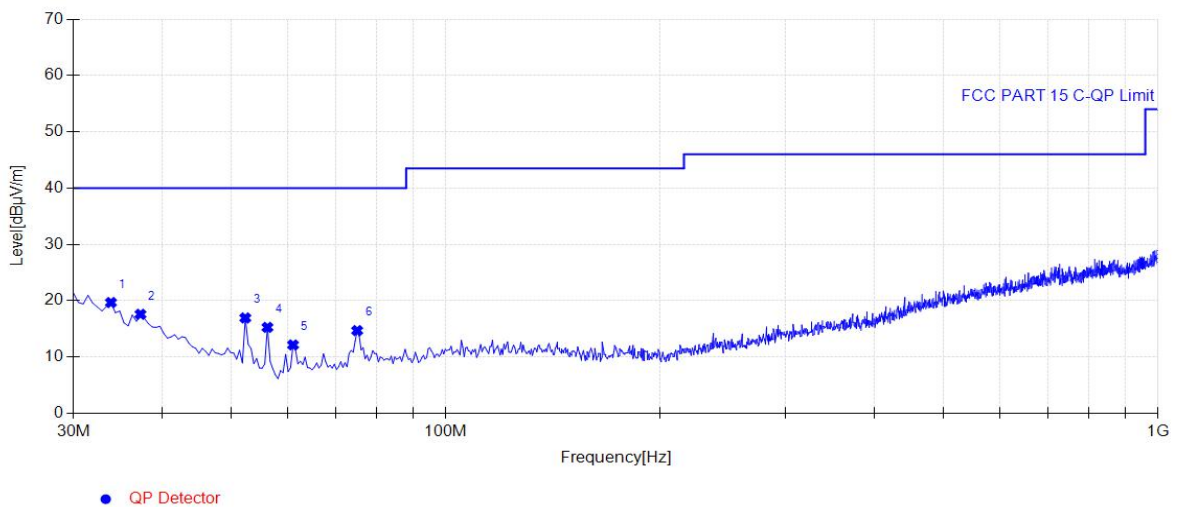
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.66dBμV/m) or 15.209 which is higher.

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	E-BIKE	Polarity:	Horizontal
Model:	C1	SN:	N/A
Mode:	Transmit at 2Mbps Channel 00	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia

Test Graph



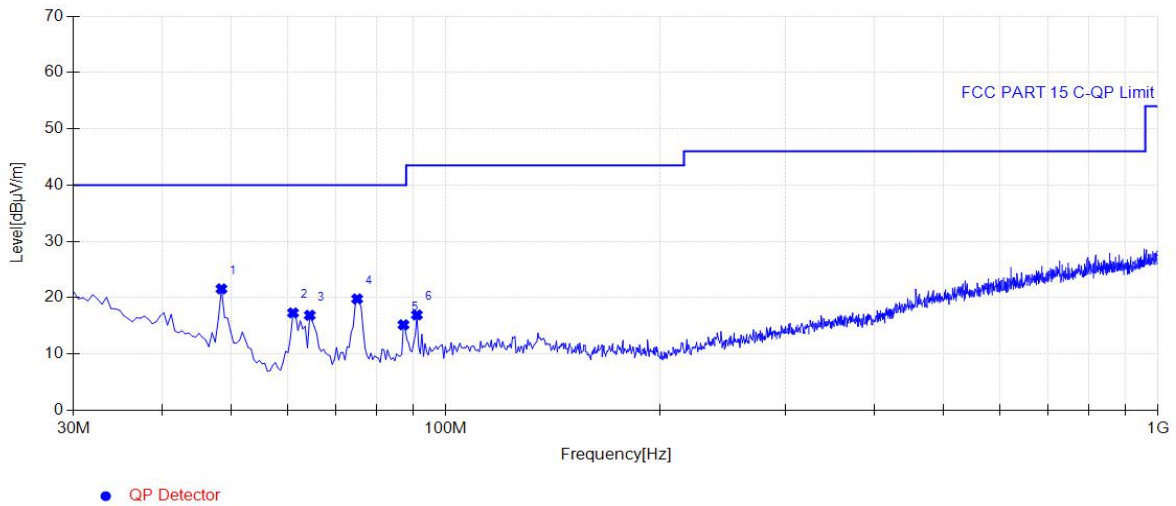
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.8800	19.67	17.75	40.00	20.33	160	353	Horizontal
2	37.2750	17.58	16.02	40.00	22.42	160	236	Horizontal
3	52.3100	16.93	8.89	40.00	23.07	160	229	Horizontal
4	56.1900	15.26	7.84	40.00	24.74	160	273	Horizontal
5	61.0400	12.14	6.99	40.00	27.86	160	98	Horizontal
6	75.1050	14.68	9.14	40.00	25.32	160	342	Horizontal

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	E-BIKE	Polarity:	Vertical
Model:	C1	SN:	N/A
Mode:	Transmit at 2Mbps Channel 00	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia

Test Graph



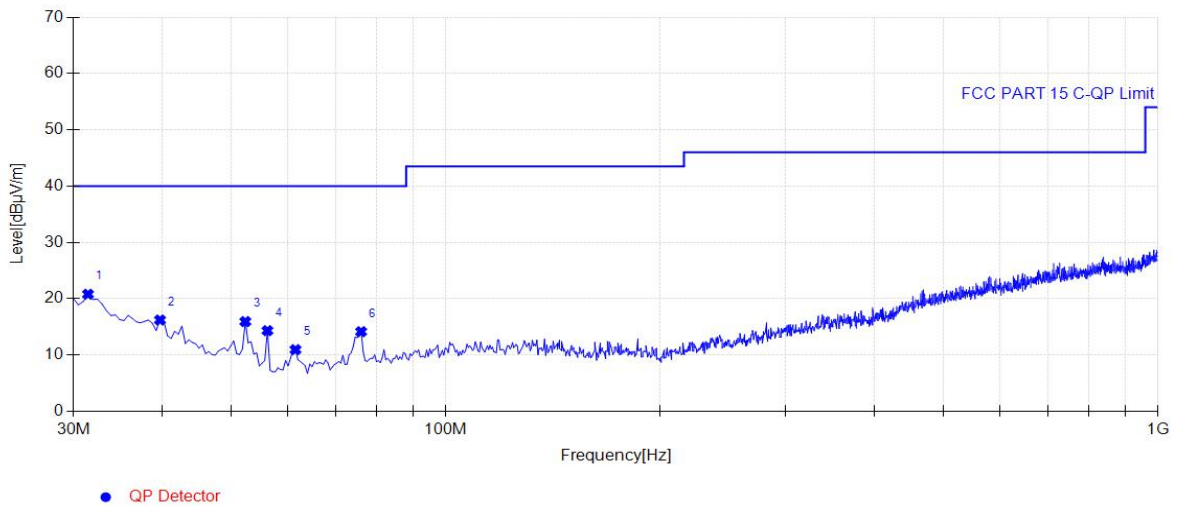
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	21.56	10.32	40.00	18.44	160	143	Vertical
2	61.0400	17.29	6.99	40.00	22.71	160	236	Vertical
3	64.4350	16.87	7.58	40.00	23.13	160	92	Vertical
4	75.1050	19.78	9.14	40.00	20.22	160	49	Vertical
5	87.2300	15.18	9.91	40.00	24.82	160	186	Vertical
6	91.1100	16.94	10.11	43.50	26.56	160	34	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	E-BIKE	Polarity:	Horizontal
Model:	C1	SN:	N/A
Mode:	Transmit at 2Mbps Channel 39	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia

Test Graph



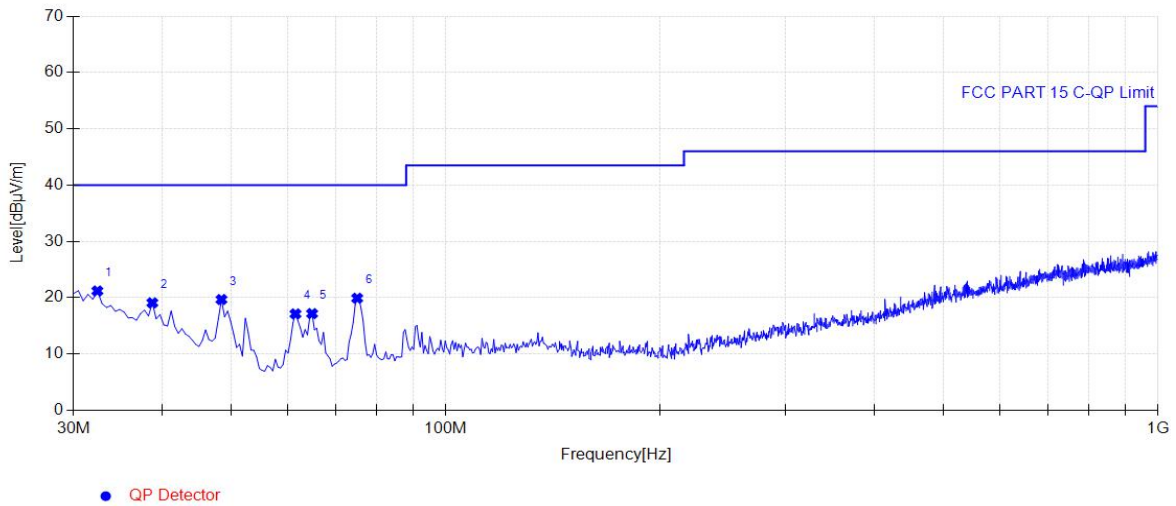
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.4550	20.79	18.97	40.00	19.21	160	39	Horizontal
2	39.7000	16.21	14.78	40.00	23.79	160	299	Horizontal
3	52.3100	15.93	8.89	40.00	24.07	160	334	Horizontal
4	56.1900	14.32	7.84	40.00	25.68	160	268	Horizontal
5	61.5250	10.94	7.08	40.00	29.06	160	183	Horizontal
6	76.0750	14.14	9.26	40.00	25.86	160	233	Horizontal

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	E-BIKE	Polarity:	Vertical
Model:	C1	SN:	N/A
Mode:	Transmit at 2Mbps Channel 39	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia

Test Graph



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.4250	21.19	18.48	40.00	18.81	160	184	Vertical
2	38.7300	19.08	15.28	40.00	20.92	160	132	Vertical
3	48.4300	19.67	10.32	40.00	20.33	160	206	Vertical
4	61.5250	17.12	7.08	40.00	22.88	160	356	Vertical
5	64.9200	17.17	7.67	40.00	22.83	160	0	Vertical
6	75.1050	19.90	9.14	40.00	20.10	160	90	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (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	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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 - 156.525	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	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 - 0.110	240 - 285	9.0 - 9.2
2.1735 - 2.1905	322 - 335.4	9.3 - 9.5
3.020 - 3.026	399.9 - 410	10.6 - 12.7
4.125 - 4.128	608 - 614	13.25 - 13.4
4.17725 - 4.17775	960 - 1427	14.47 - 14.5
4.20725 - 4.20775	1435 - 1626.5	15.35 - 16.2
5.677 - 5.683	1645.5 - 1646.5	17.7 - 21.4
6.215 - 6.218	1660 - 1710	22.01 - 23.12
6.26775 - 6.26825	1718.8 -1722.2	23.6 - 24.0
6.31175 - 6.31225	2200 - 2300	31.2 - 31.8
8.291 - 8.294	2310 -2390	36.43 - 36.5
8.362 - 8.366	2655 - 2900	Above 38.6
8.37625 - 8.38675	3260 - 3267	--
8.41425 - 8.41475	3332 -3339	
12.29 - 12.293	334.5 - 3358	
12.51975 - 12.52025	3500 - 4400	
12.57675 - 12.57725	4500 - 5150	
13.36 -13.41	5350 - 5460	
16.42 - 16.423	7250 - 7750	
16.69475 - 16.69525	8025 - 8500	
16.80425 - 16.80475	--	
25.5 - 25.67		
37.5 - 38.25		
73 - 74.6		
74.8 - 75.2		
108 - 138		
156.52475 - 156.525225		
156.7 - 156.9		

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen

must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

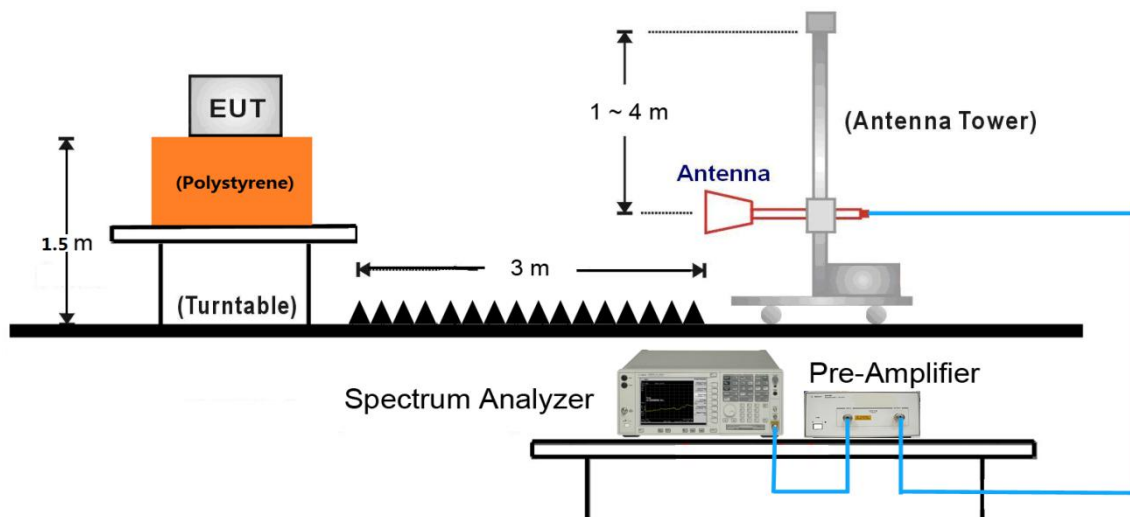
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup



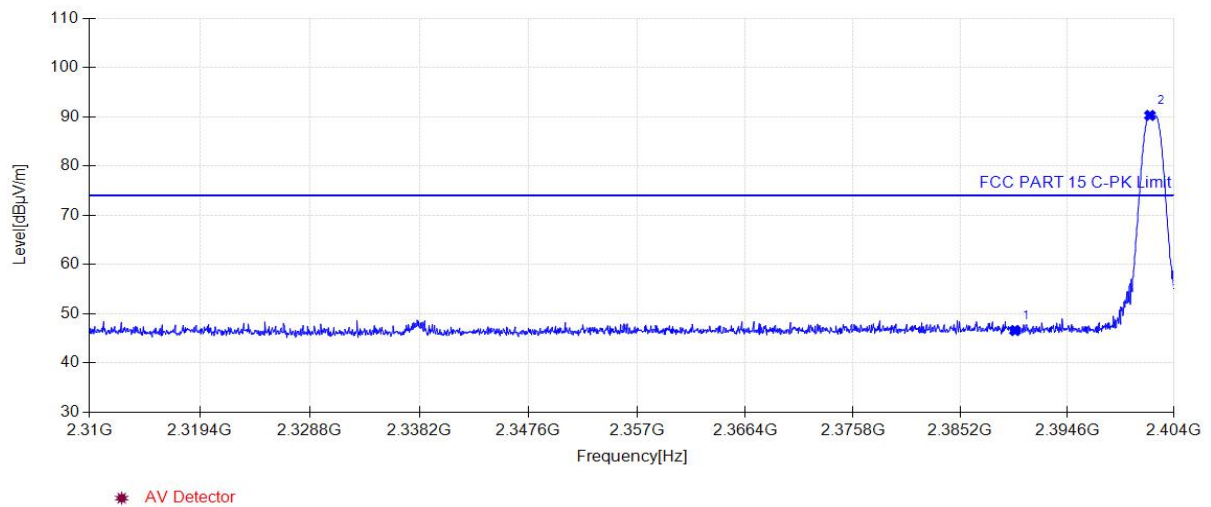
Note: This item was performed with the WIFI antenna connected.

7.7.5. Test Result

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 00		

Start of Test:2022-05-11 15:41:03

Test Graph

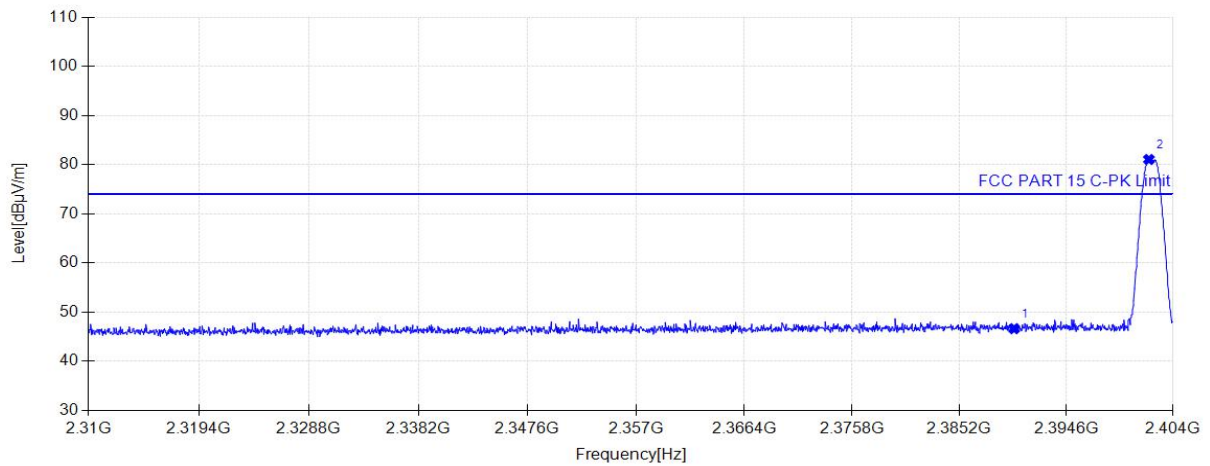


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	46.59	34.25	74.00	27.41	160	321	Horizontal
2	2401.88	90.26	34.31	74.00	-16.26	160	68	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 00		

Start of Test:2022-05-11 15:41:55

Test Graph



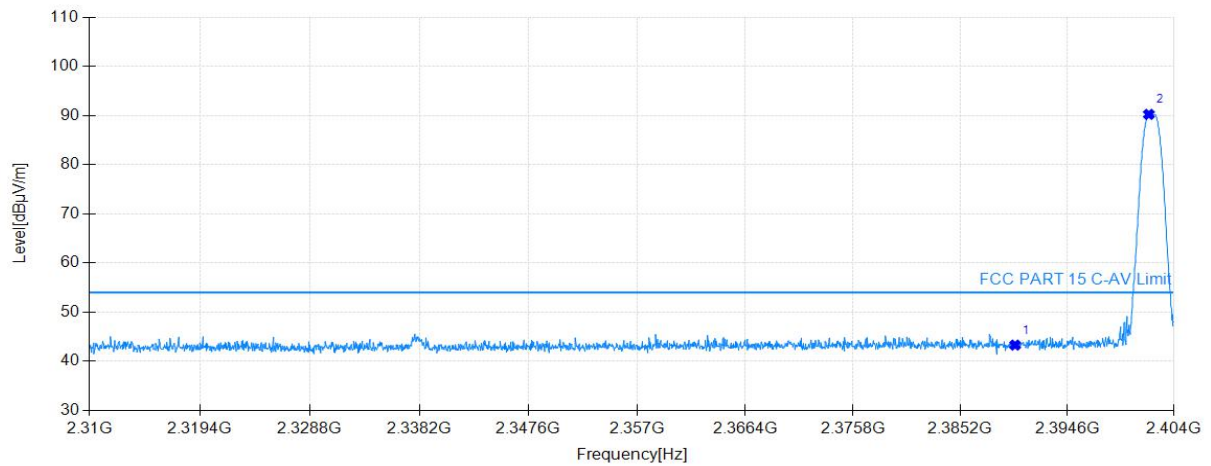
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	46.63	34.25	74.00	27.37	160	4	Vertical
2	2401.88	81.05	34.31	74.00	-7.05	160	130	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 00		

Start of Test:2022-05-11 15:43:30

Test Graph



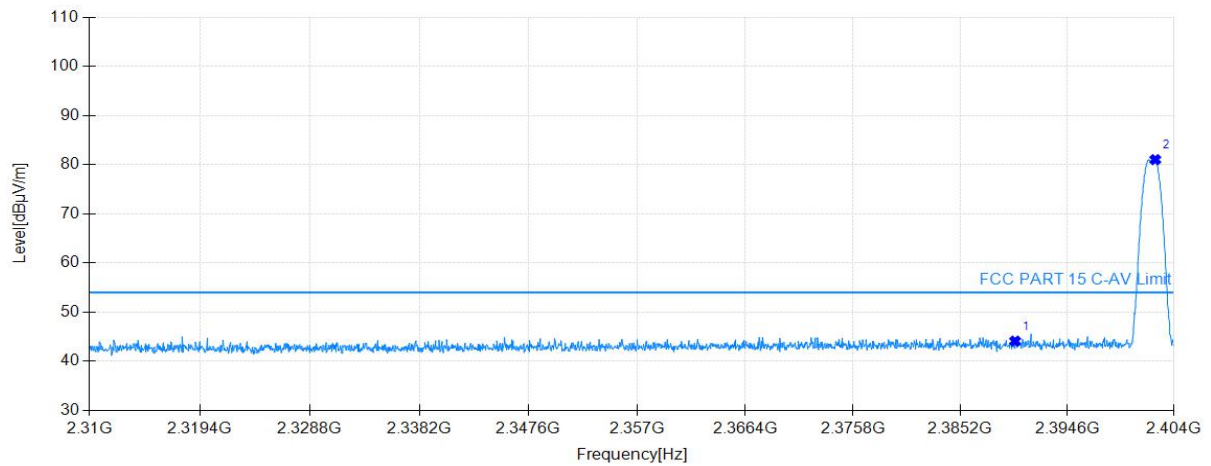
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	43.30	34.25	54.00	10.70	160	75	Horizontal
2	2401.79	90.22	34.31	54.00	-36.22	160	60	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 00		

Start of Test:2022-05-11 15:44:22

Test Graph



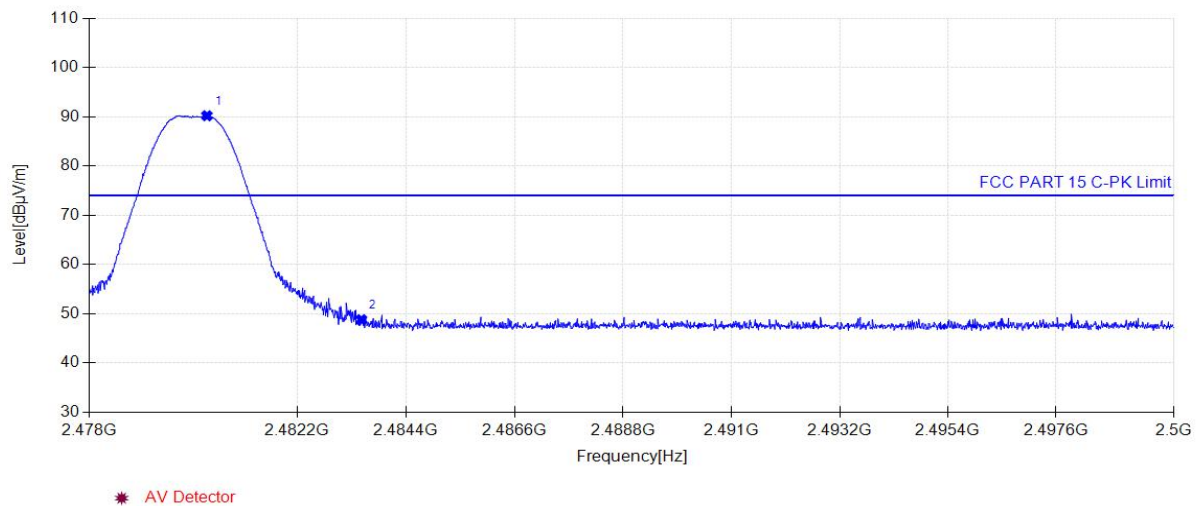
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	44.10	34.25	54.00	9.90	160	0	Vertical
2	2402.35	81.01	34.32	54.00	-27.01	160	134	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 39		

Start of Test:2022-05-11 16:01:08

Test Graph

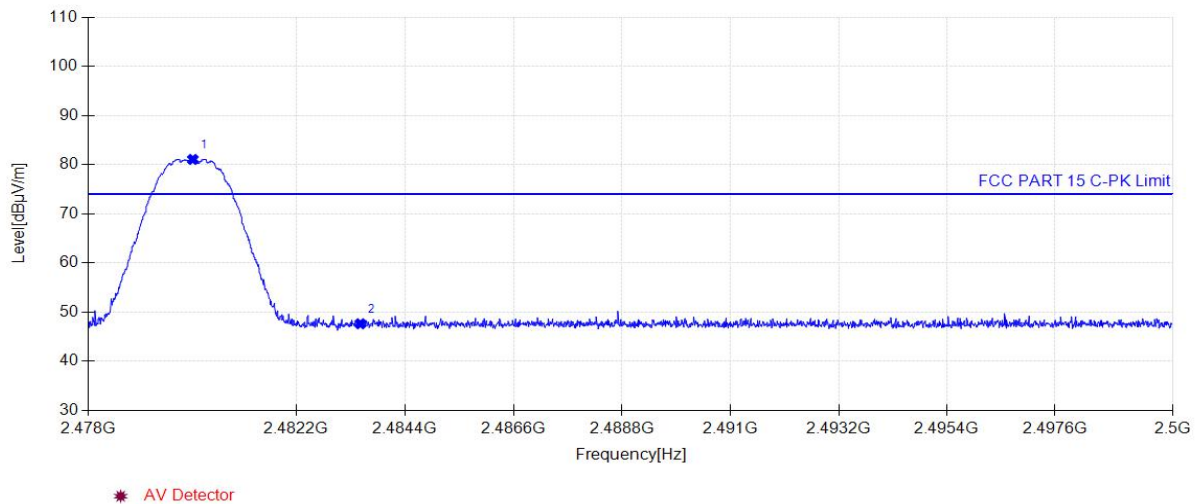


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.37	90.19	34.64	74.00	-16.19	160	134	Horizontal
2	2483.50	48.80	34.65	74.00	25.20	160	170	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 39		

Start of Test:2022-05-11 16:02:01

Test Graph

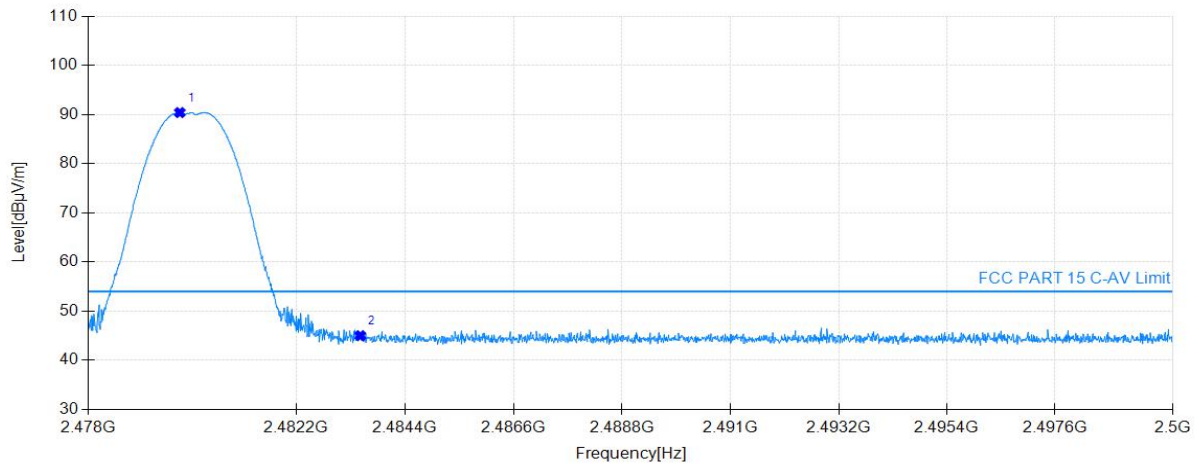


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.11	81.06	34.64	74.00	-7.06	160	142	Vertical
2	2483.50	47.63	34.65	74.00	26.37	160	235	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 39		

Start of Test:2022-05-11 16:03:21

Test Graph



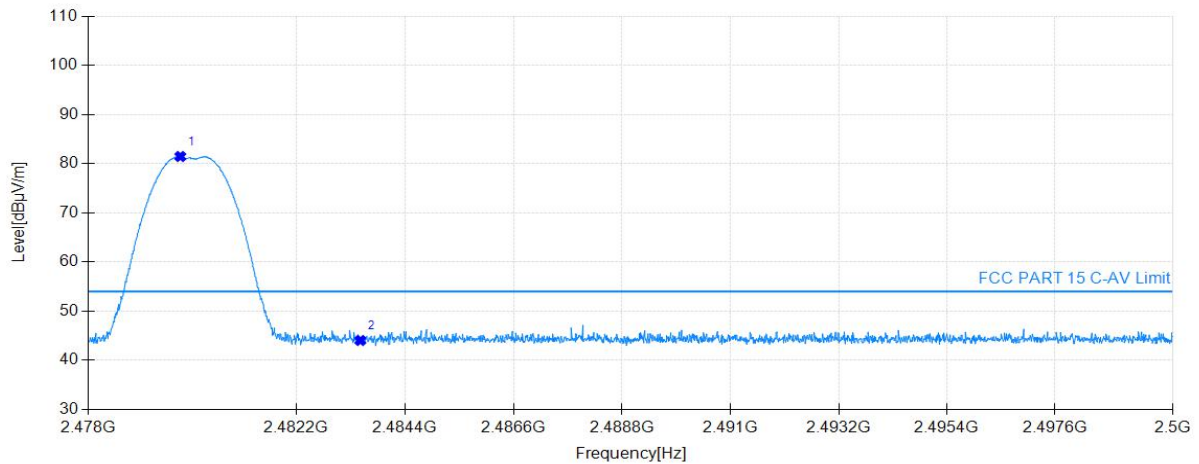
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.84	90.38	34.64	54.00	-36.38	160	133	Horizontal
2	2483.50	45.00	34.65	54.00	9.00	160	140	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 1Mbps Channel 39		

Start of Test:2022-05-11 16:04:14

Test Graph



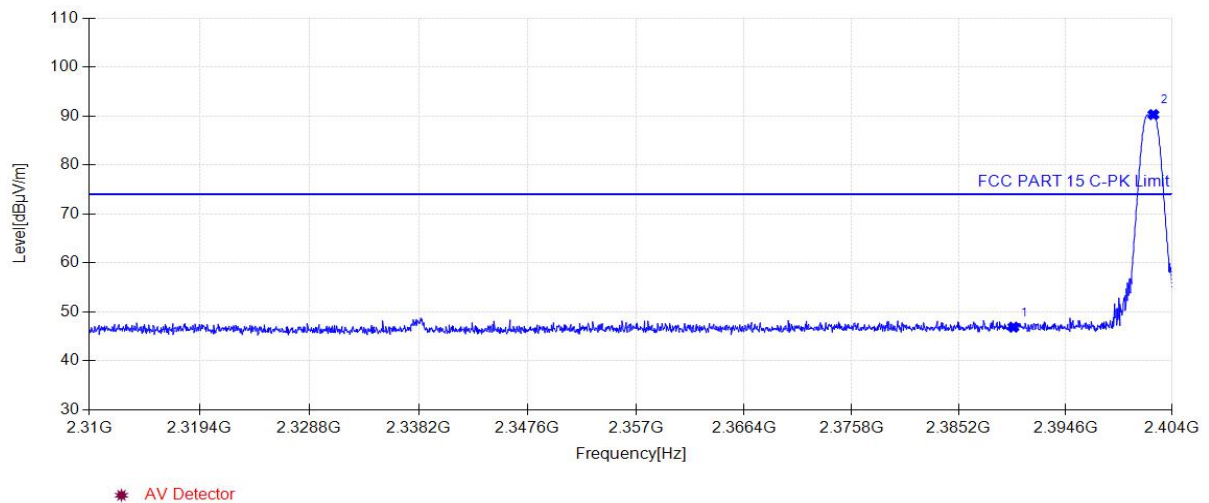
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.85	81.45	34.64	54.00	-27.45	160	138	Vertical
2	2483.50	44.03	34.65	54.00	9.97	160	34	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 00		

Start of Test:2022-05-11 14:52:27

Test Graph

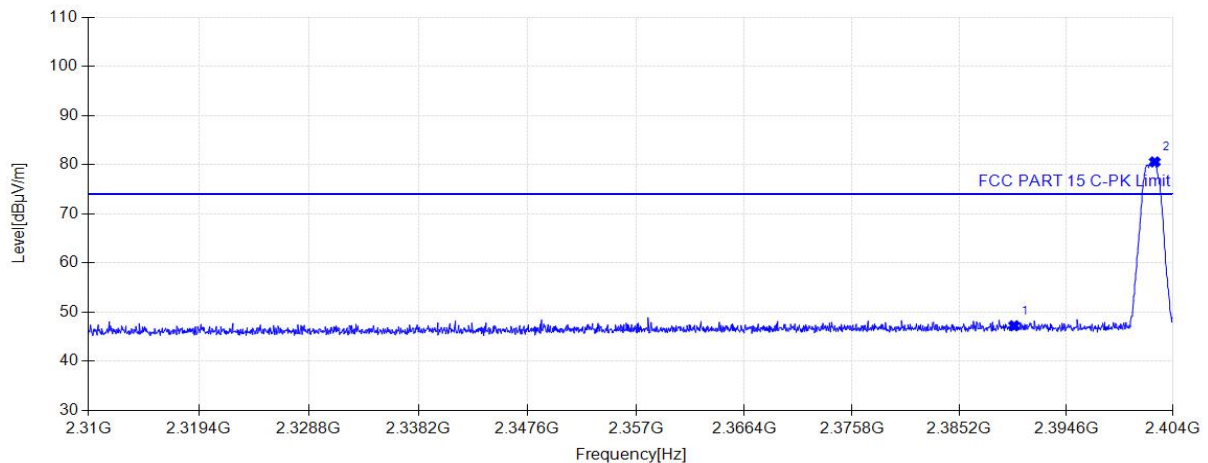


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	46.88	34.25	74.00	27.12	160	274	Horizontal
2	2402.35	90.27	34.32	74.00	-16.27	160	267	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 00		

Start of Test:2022-05-11 14:53:19

Test Graph



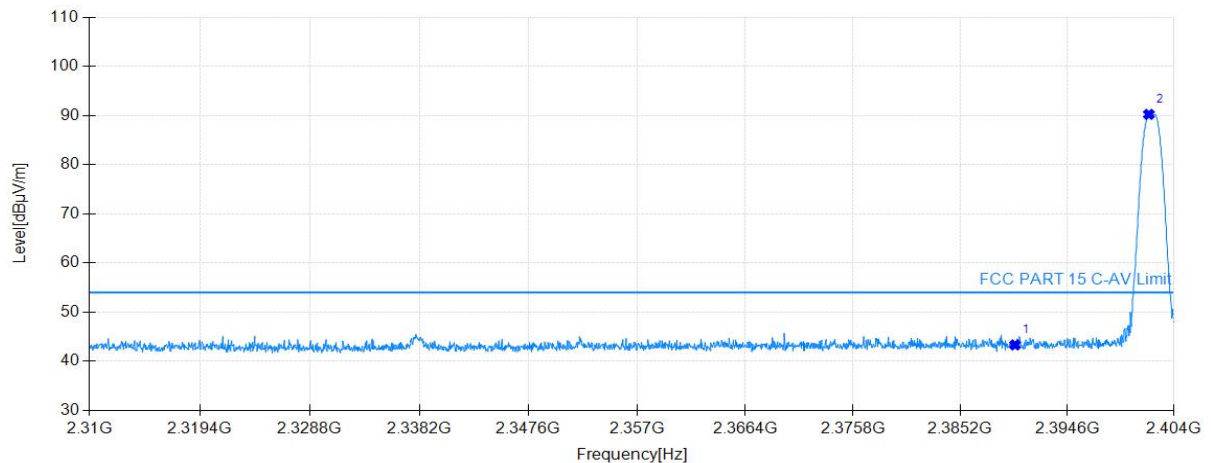
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	47.23	34.25	74.00	26.77	160	207	Vertical
2	2402.40	80.55	34.32	74.00	-6.55	160	328	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 00		

Start of Test:2022-05-11 14:54:42

Test Graph



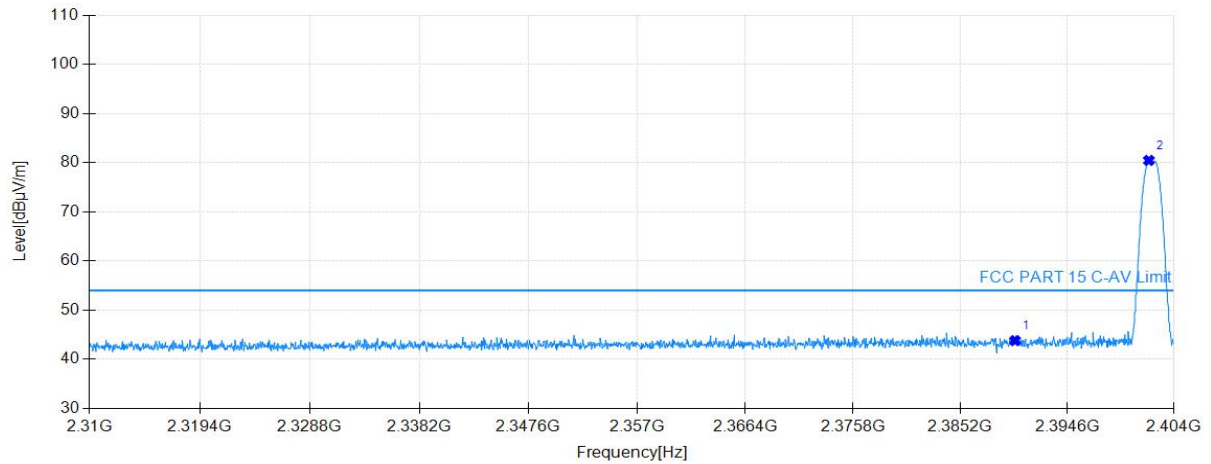
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	43.33	34.25	54.00	10.67	160	74	Horizontal
2	2401.79	90.22	34.31	54.00	-36.22	160	264	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 00		

Start of Test:2022-05-11 14:55:35

Test Graph



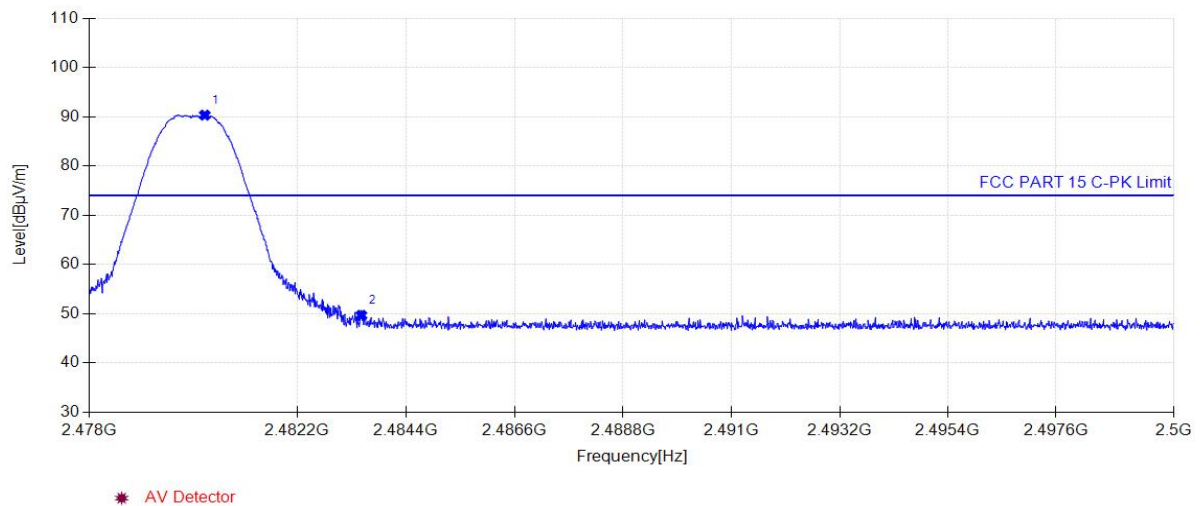
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.00	43.80	34.25	54.00	10.20	160	308	Vertical
2	2401.79	80.45	34.31	54.00	-26.45	160	336	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 39		

Start of Test:2022-05-11 15:10:27

Test Graph

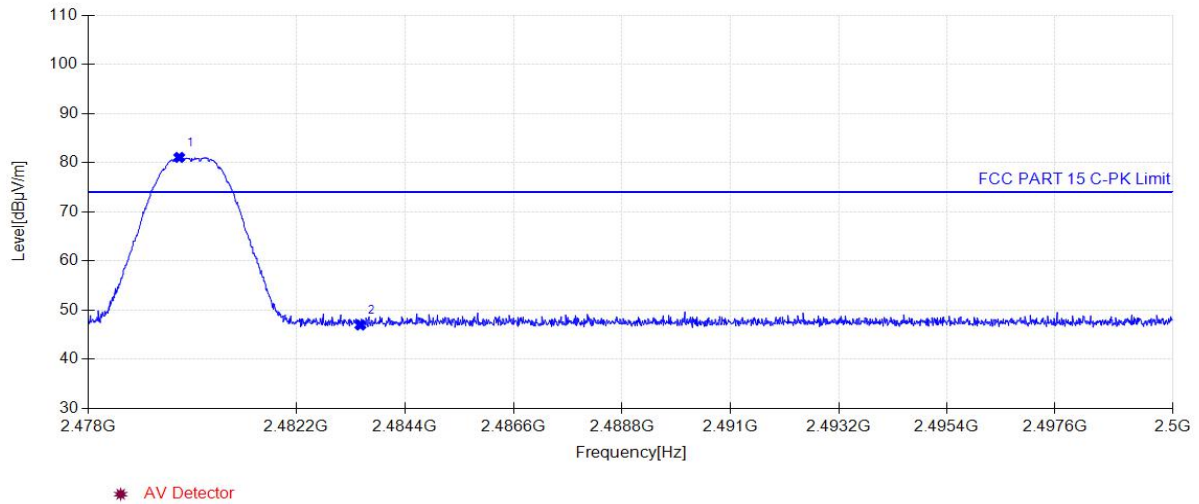


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.33	90.32	34.64	74.00	-16.32	160	134	Horizontal
2	2483.50	49.67	34.65	74.00	24.33	160	98	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 39		

Start of Test:2022-05-11 15:11:20

Test Graph

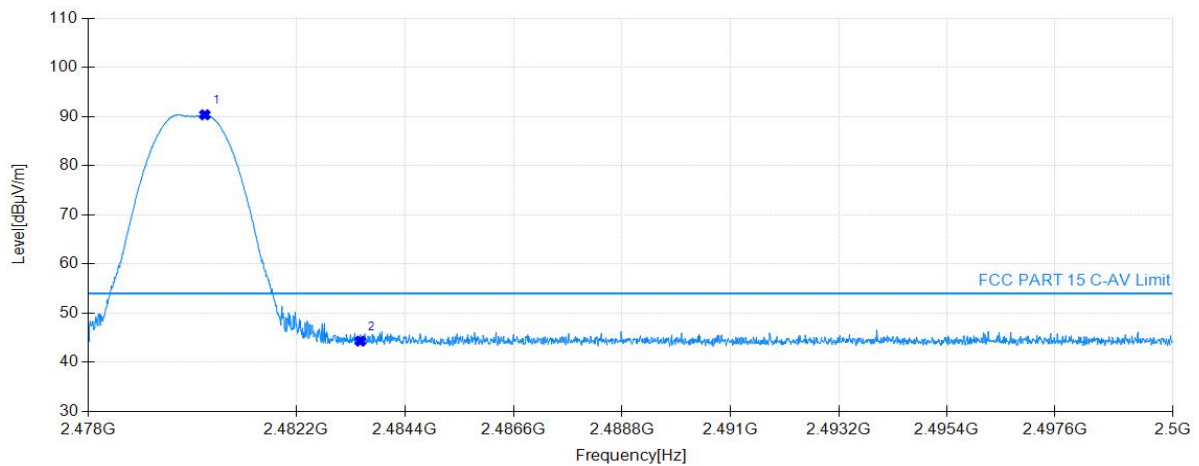


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.83	81.06	34.64	74.00	-7.06	160	134	Vertical
2	2483.50	46.97	34.65	74.00	27.03	160	48	Vertical

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 39		

Start of Test:2022-05-11 15:15:03

Test Graph



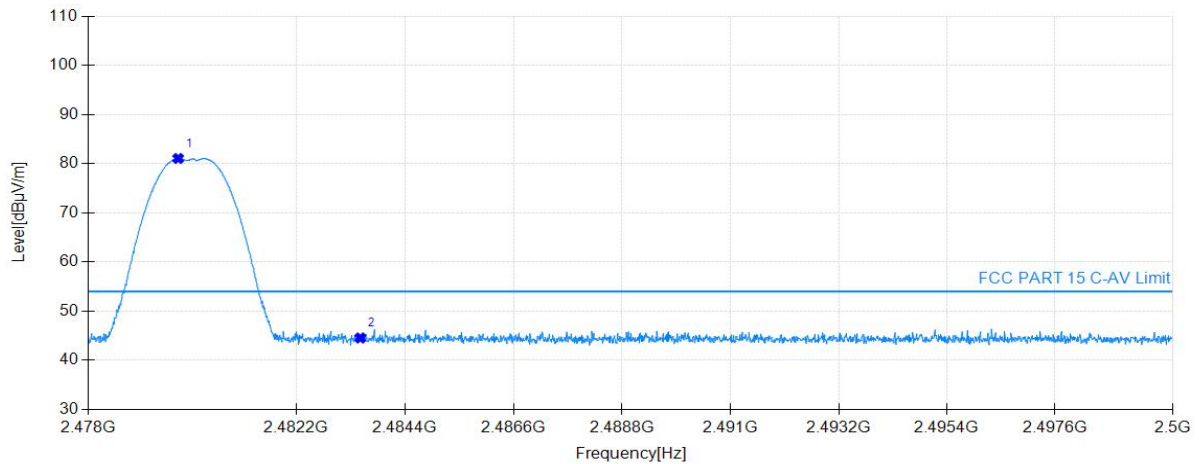
* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.35	90.34	34.64	54.00	-36.34	160	134	Horizontal
2	2483.50	44.30	34.65	54.00	9.70	160	110	Horizontal

Project Information			
EUT:	E-BIKE	Model:	C1
SN:	N/A	Voltage:	DC 3.3V
Environment:	Temp: 23°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 39		

Start of Test:2022-05-11 15:15:56

Test Graph



* AV Detector

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.81	81.05	34.64	54.00	-27.05	160	138	Vertical
2	2483.50	44.54	34.65	54.00	9.46	160	74	Vertical

7.8. AC Conducted Emissions Measurement

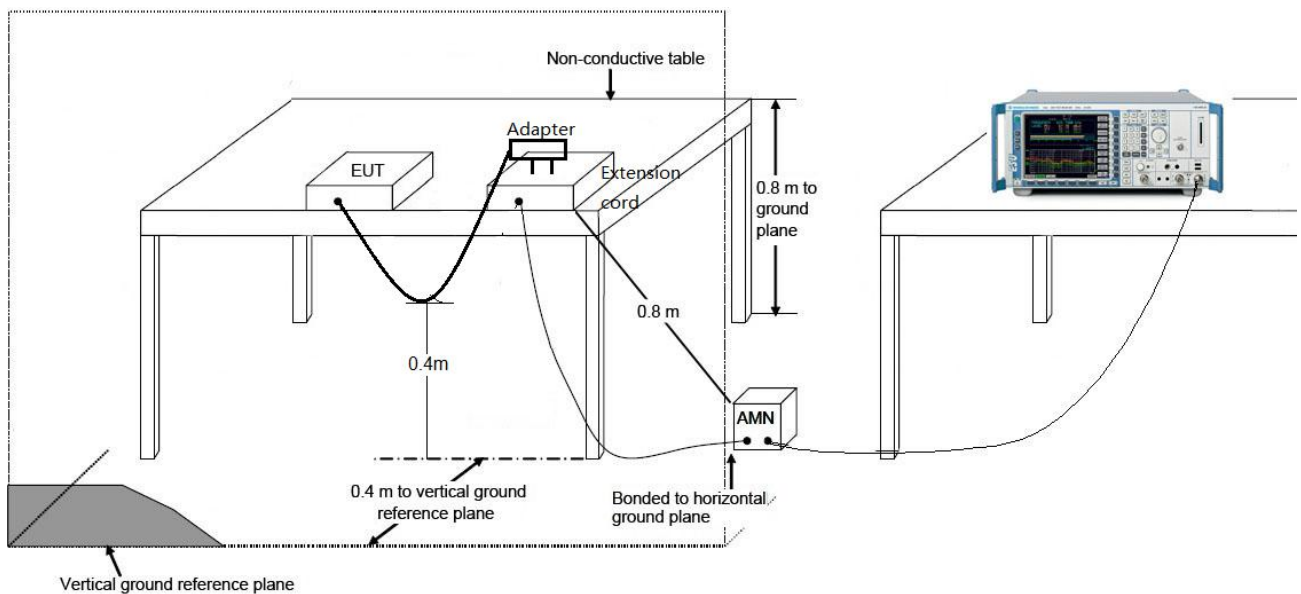
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

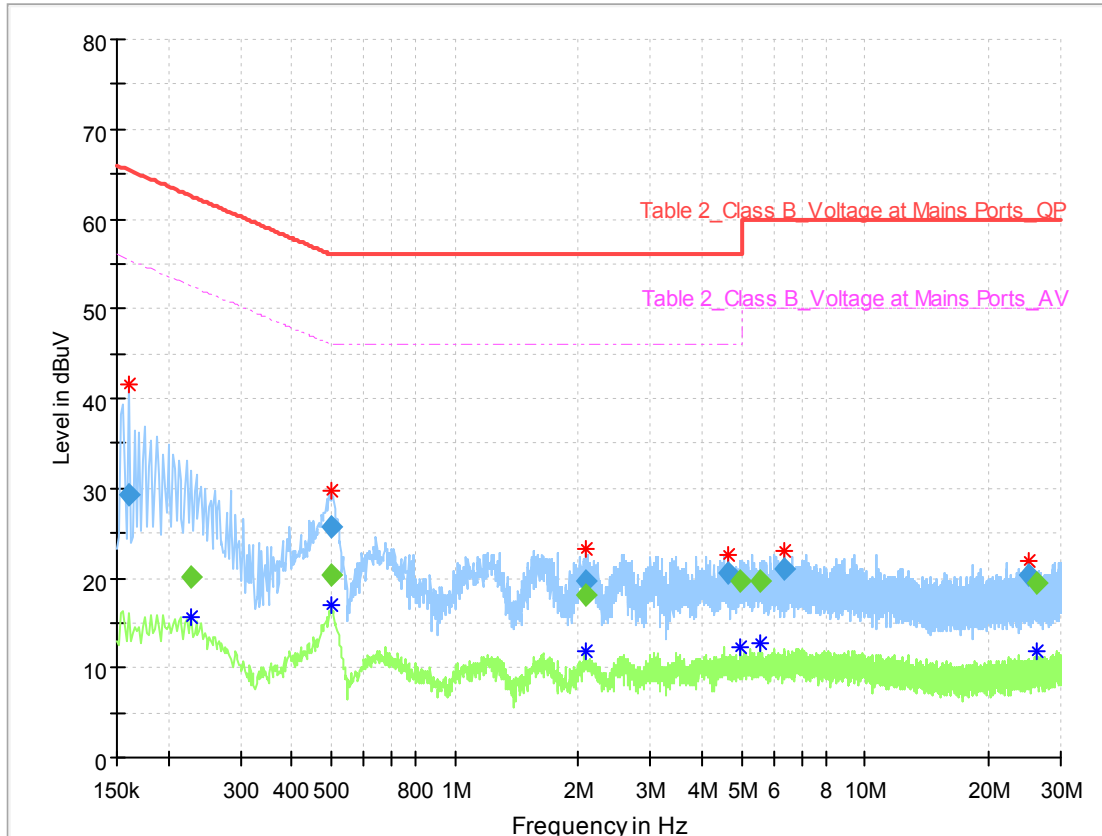
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



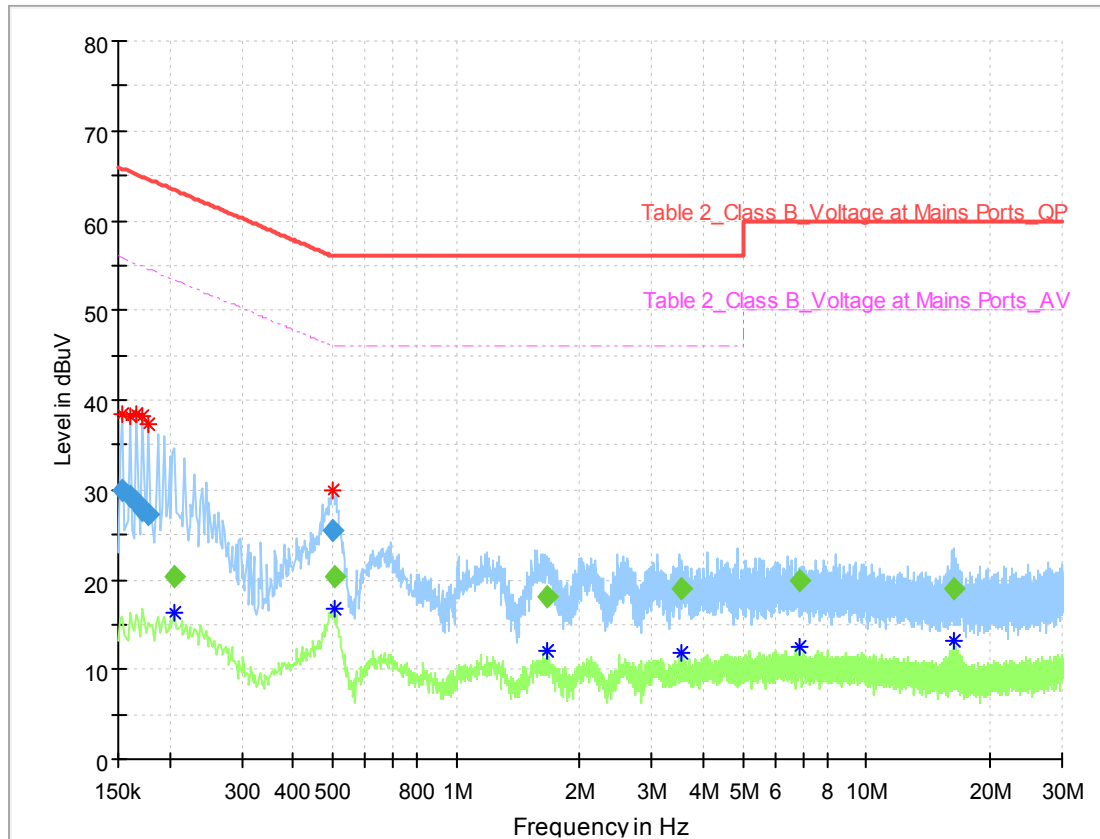
7.8.3. Test Result

EUT:	E-BIKE	Polarity:	LINE
Model:	C1	Voltage:	120V/60Hz
Environment:	Temp: 22°C; Humi:52%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 00		



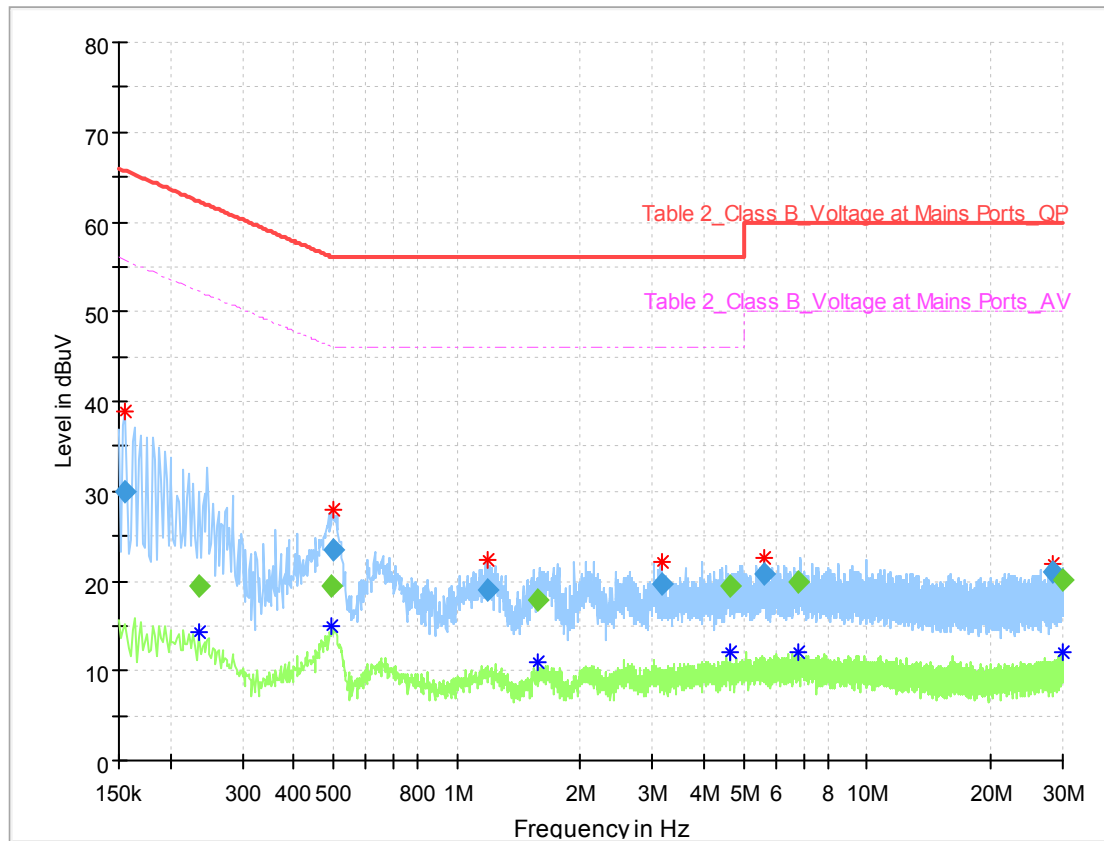
Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.160000	29.25	---	65.46	36.21	1000.0	9.000	L1	ON	9.5
0.228000	---	20.08	52.52	32.45	1000.0	9.000	L1	ON	9.5
0.500000	---	20.24	46.00	25.76	1000.0	9.000	L1	ON	9.5
0.500000	25.65	---	56.00	30.35	1000.0	9.000	L1	ON	9.5
2.080000	19.61	---	56.00	36.39	1000.0	9.000	L1	ON	9.6
2.088000	---	18.17	46.00	27.83	1000.0	9.000	L1	ON	9.6
4.640000	20.50	---	56.00	35.50	1000.0	9.000	L1	ON	9.6
4.978000	---	19.66	46.00	26.34	1000.0	9.000	L1	ON	9.6
5.542000	---	19.67	50.00	30.33	1000.0	9.000	L1	ON	9.6
6.358000	21.03	---	60.00	38.97	1000.0	9.000	L1	ON	9.7
25.014000	20.22	---	60.00	39.78	1000.0	9.000	L1	ON	9.8
26.314000	---	19.41	50.00	30.59	1000.0	9.000	L1	ON	9.7

EUT:	E-BIKE	Polarity:	NEUTRAL
Model:	C1	Voltage:	120V/60Hz
Environment:	Temp: 22°C; Humi:52%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 00		



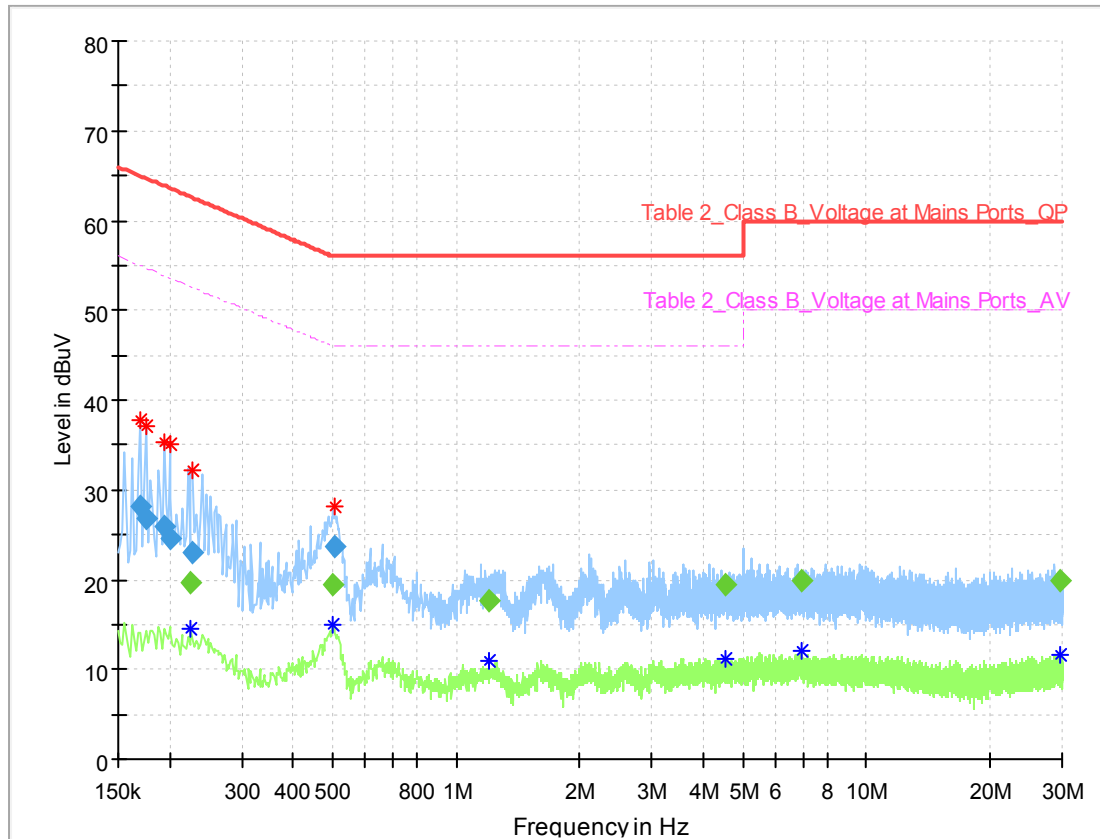
Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154000	29.93	---	65.78	35.86	1000.0	9.000	N	ON	9.5
0.160000	29.18	---	65.46	36.29	1000.0	9.000	N	ON	9.5
0.166000	28.55	---	65.16	36.61	1000.0	9.000	N	ON	9.5
0.172000	27.69	---	64.86	37.17	1000.0	9.000	N	ON	9.5
0.178000	27.15	---	64.58	37.42	1000.0	9.000	N	ON	9.5
0.206000	---	20.40	53.37	32.97	1000.0	9.000	N	ON	9.5
0.498000	25.46	---	56.03	30.57	1000.0	9.000	N	ON	9.5
0.504000	---	20.26	46.00	25.74	1000.0	9.000	N	ON	9.5
1.668000	---	18.09	46.00	27.91	1000.0	9.000	N	ON	9.5
3.526000	---	19.04	46.00	26.96	1000.0	9.000	N	ON	9.6
6.890000	---	19.89	50.00	30.11	1000.0	9.000	N	ON	9.7
16.310000	---	18.99	50.00	31.01	1000.0	9.000	N	ON	9.8

EUT:	E-BIKE	Polarity:	LINE
Model:	C1	Voltage:	120V/60Hz
Environment:	Temp: 22°C; Humi:52%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 39		



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156000	29.93	---	65.67	35.74	1000.0	9.000	L1	ON	9.5
0.234000	---	19.47	52.31	32.84	1000.0	9.000	L1	ON	9.5
0.494000	---	19.35	46.10	26.75	1000.0	9.000	L1	ON	9.5
0.498000	23.54	---	56.03	32.49	1000.0	9.000	L1	ON	9.5
1.188000	18.92	---	56.00	37.08	1000.0	9.000	L1	ON	9.5
1.568000	---	17.81	46.00	28.19	1000.0	9.000	L1	ON	9.5
3.166000	19.67	---	56.00	36.33	1000.0	9.000	L1	ON	9.6
4.650000	---	19.45	46.00	26.55	1000.0	9.000	L1	ON	9.6
5.616000	20.72	---	60.00	39.28	1000.0	9.000	L1	ON	9.6
6.764000	---	19.89	50.00	30.11	1000.0	9.000	L1	ON	9.7
28.354000	20.93	---	60.00	39.07	1000.0	9.000	L1	ON	9.7
29.980000	---	20.09	50.00	29.91	1000.0	9.000	L1	ON	9.7

EUT:	E-BIKE	Polarity:	NEUTRAL
Model:	C1	Voltage:	120V/60Hz
Environment:	Temp: 22°C; Humi:52%	Engineer:	Amos Xia
Remark:	Transmit at 2Mbps Channel 39		



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.170000	28.08	---	64.96	36.88	1000.0	9.000	N	ON	9.5
0.176000	26.73	---	64.67	37.95	1000.0	9.000	N	ON	9.5
0.194000	25.84	---	63.86	38.02	1000.0	9.000	N	ON	9.5
0.200000	24.64	---	63.61	38.97	1000.0	9.000	N	ON	9.5
0.226000	---	19.62	52.60	32.98	1000.0	9.000	N	ON	9.5
0.228000	23.00	---	62.52	39.53	1000.0	9.000	N	ON	9.5
0.500000	---	19.48	46.00	26.52	1000.0	9.000	N	ON	9.5
0.504000	23.75	---	56.00	32.25	1000.0	9.000	N	ON	9.5
1.204000	---	17.76	46.00	28.24	1000.0	9.000	N	ON	9.5
4.536000	---	19.41	46.00	26.59	1000.0	9.000	N	ON	9.6
6.912000	---	19.87	50.00	30.13	1000.0	9.000	N	ON	9.7
29.678000	---	19.98	50.00	30.02	1000.0	9.000	N	ON	9.7

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **E-BIKE** is in compliance with Part 15C of the FCC Rules.

_____ The End _____