

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-1Mbps
Test Channel	39		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	10894.0	28.4	17.6	46.0	74.0	-28.0	Peak	Horizontal
	12313.5	28.8	17.9	46.7	74.0	-27.3	Peak	Horizontal
	15747.5	28.9	21.0	49.9	74.0	-24.1	Peak	Horizontal
	11030.0	28.0	17.8	45.8	74.0	-28.2	Peak	Vertical
	12084.0	28.1	17.8	45.9	74.0	-28.1	Peak	Vertical
	15756.0	29.2	21.0	50.2	74.0	-23.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-2Mbps
Test Channel	00		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11030.0	28.7	17.8	46.5	74.0	-27.5	Peak	Horizontal
	12322.0	29.6	17.9	47.5	74.0	-26.5	Peak	Horizontal
	15739.0	29.7	21.0	50.7	74.0	-23.3	Peak	Horizontal
	10987.5	28.0	17.8	45.8	74.0	-28.2	Peak	Vertical
	12339.0	29.2	17.9	47.1	74.0	-26.9	Peak	Vertical
	15577.5	28.9	21.3	50.2	74.0	-23.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-2Mbps
Test Channel	19		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11055.5	28.1	17.9	46.0	74.0	-28.0	Peak	Horizontal
	12594.0	28.8	18.2	47.0	74.0	-27.0	Peak	Horizontal
	15552.0	29.0	21.4	50.4	74.0	-23.6	Peak	Horizontal
	11013.0	29.5	17.8	47.3	74.0	-26.7	Peak	Vertical
	12602.5	28.8	18.2	47.0	74.0	-27.0	Peak	Vertical
	15807.0	29.7	20.9	50.6	74.0	-23.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-2Mbps
Test Channel	39		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11574.0	27.8	18.4	46.2	74.0	-27.8	Peak	Horizontal
	12194.5	28.8	17.9	46.7	74.0	-27.3	Peak	Horizontal
	15747.5	28.9	21.0	49.9	74.0	-24.1	Peak	Horizontal
	11778.0	28.4	18.1	46.5	74.0	-27.5	Peak	Vertical
	12602.5	28.5	18.2	46.7	74.0	-27.3	Peak	Vertical
	15756.0	29.6	21.0	50.6	74.0	-23.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Bluetooth Chip 1 External Omni Antenna

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-1Mbps
Test Channel	00		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11761.0	28.7	18.1	46.8	74.0	-27.2	Peak	Horizontal
	12245.5	28.9	17.9	46.8	74.0	-27.2	Peak	Horizontal
	15543.5	28.0	21.4	49.4	74.0	-24.6	Peak	Horizontal
	10800.5	28.4	17.5	45.9	74.0	-28.1	Peak	Vertical
	12126.5	28.9	17.8	46.7	74.0	-27.3	Peak	Vertical
	15756.0	29.0	21.0	50.0	74.0	-24.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-1Mbps
Test Channel	19		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11106.5	29.4	17.9	47.3	74.0	-26.7	Peak	Horizontal
	12602.5	28.6	18.2	46.8	74.0	-27.2	Peak	Horizontal
	15569.0	29.3	21.3	50.6	74.0	-23.4	Peak	Horizontal
	11055.5	28.1	17.9	46.0	74.0	-28.0	Peak	Vertical
	12262.5	28.5	17.9	46.4	74.0	-27.6	Peak	Vertical
	15756.0	29.0	21.0	50.0	74.0	-24.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-1Mbps
Test Channel	39		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7443.0	34.8	11.6	46.4	74.0	-27.6	Peak	Horizontal
	12135.0	28.9	17.8	46.7	74.0	-27.3	Peak	Horizontal
	15756.0	29.1	21.0	50.1	74.0	-23.9	Peak	Horizontal
	7443.0	37.5	11.6	49.1	74.0	-24.9	Peak	Vertical
	10188.5	31.4	16.0	47.4	74.0	-26.6	Peak	Vertical
	16045.0	30.3	20.7	51.0	74.0	-23.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-2Mbps
Test Channel	00		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	10979.0	28.7	17.8	46.5	74.0	-27.5	Peak	Horizontal
	12271.0	29.0	17.9	46.9	74.0	-27.1	Peak	Horizontal
	15577.5	28.6	21.3	49.9	74.0	-24.1	Peak	Horizontal
	11081.0	28.9	17.9	46.8	74.0	-27.2	Peak	Vertical
	12313.5	29.1	17.9	47.0	74.0	-27.0	Peak	Vertical
	15756.0	29.3	21.0	50.3	74.0	-23.7	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-2Mbps
Test Channel	19		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11089.5	28.7	17.9	46.6	74.0	-27.4	Peak	Horizontal
	12526.0	28.1	18.0	46.1	74.0	-27.9	Peak	Horizontal
	15764.5	28.9	21.0	49.9	74.0	-24.1	Peak	Horizontal
	7315.5	39.1	11.2	50.3	74.0	-23.7	Peak	Vertical
	11030.0	28.6	17.8	46.4	74.0	-27.6	Peak	Vertical
	15798.5	29.7	20.9	50.6	74.0	-23.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	AC1	Test Engineer	Jay Chou
Test Date	2021/06/06	Test Mode	BLE-2Mbps
Test Channel	39		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

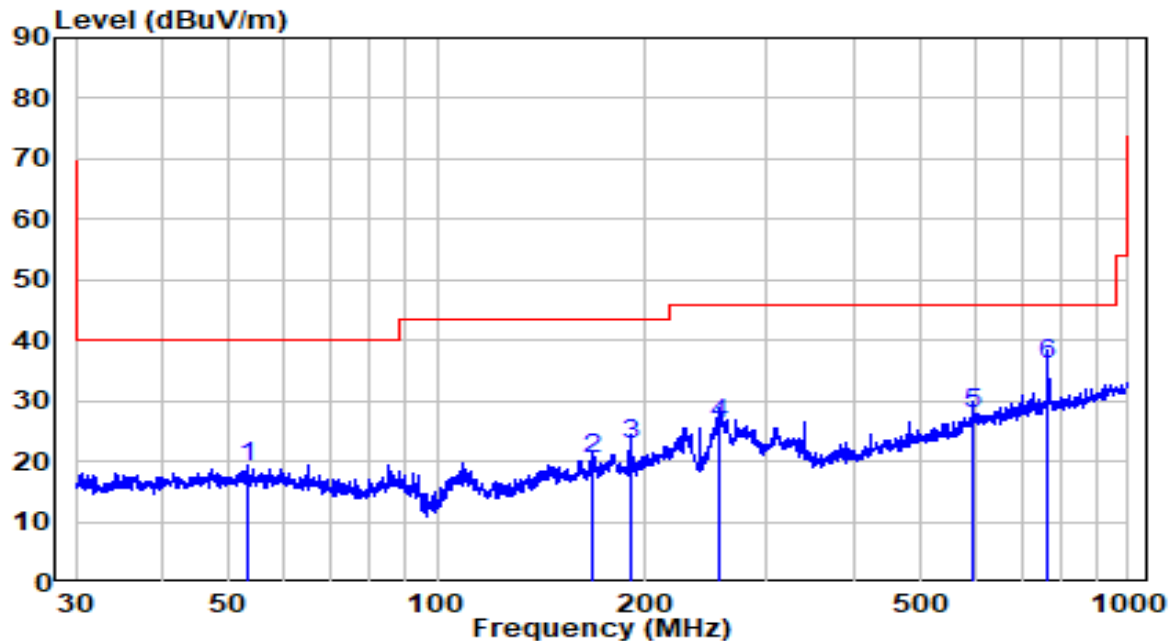
Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11132.0	27.9	18.0	45.9	74.0	-28.1	Peak	Horizontal
	12160.5	28.4	17.8	46.2	74.0	-27.8	Peak	Horizontal
	15798.5	28.9	20.9	49.8	74.0	-24.2	Peak	Horizontal
	11081.0	28.4	17.9	46.3	74.0	-27.7	Peak	Vertical
	12118.0	28.6	17.8	46.4	74.0	-27.6	Peak	Vertical
	15832.5	29.3	20.9	50.2	74.0	-23.8	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-02
Factor	VULB 9162	Temp. / Humidity	21.3°C /55%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE at channel 2402MHz (Bluetooth chip 0 external antenna)	Test Voltage	120V/60Hz

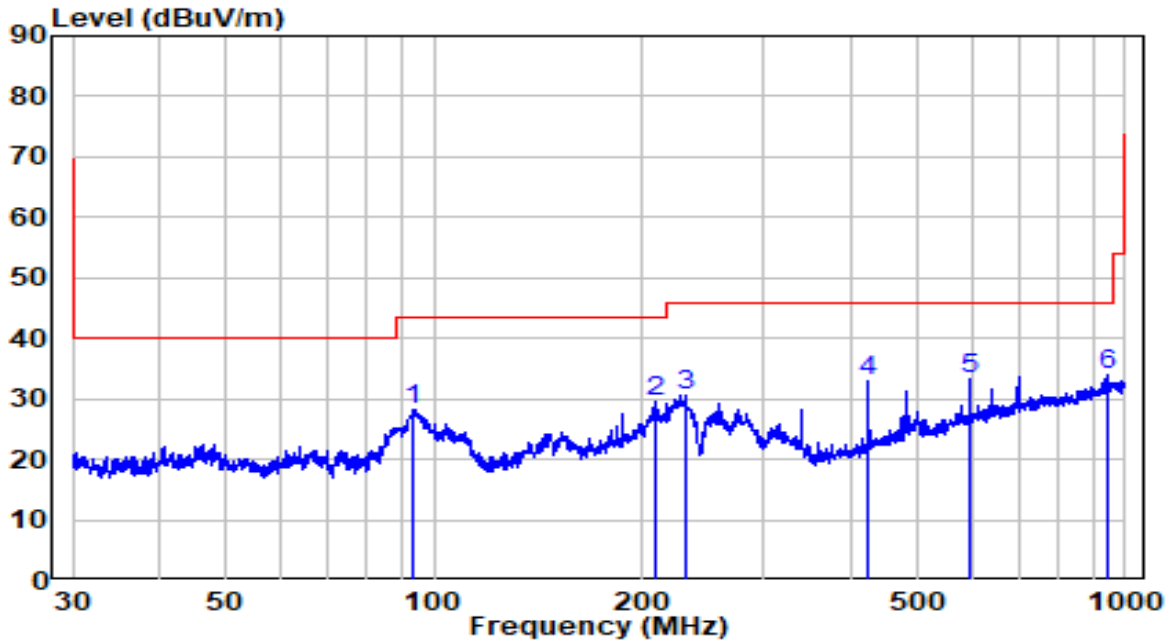


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	53.038	-2.57	21.49	18.92	-21.08	40.00	QP
2	168.119	3.87	16.59	20.46	-23.04	43.50	QP
3	190.072	3.83	18.92	22.75	-20.75	43.50	QP
4	255.175	5.50	20.56	26.06	-19.94	46.00	QP
5	595.133	0.14	27.70	27.84	-18.16	46.00	QP
6	* 766.057	5.77	30.24	36.01	-9.99	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5.The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-02
Factor	VULB 9162	Temp. / Humidity	21.3°C /55%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE at channel 2402MHz (Bluetooth chip 0 external antenna)	Test Voltage	120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	93.277	10.53	17.64	28.17	-15.33	43.50	QP
2	209.680	10.90	18.80	29.70	-13.80	43.50	QP
3	231.718	10.96	19.76	30.72	-15.28	46.00	QP
4	425.028	8.46	24.48	32.94	-13.06	46.00	QP
5	595.133	5.45	27.70	33.15	-12.85	46.00	QP
6 *	940.480	1.93	32.09	34.02	-11.98	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5.The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented 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	8.025 - 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 - 156.52525	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	--	--	--

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 below table.

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

7.7.2.Test Procedure Used

ANSI C63.10-2013 Section 6.10.5.2

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

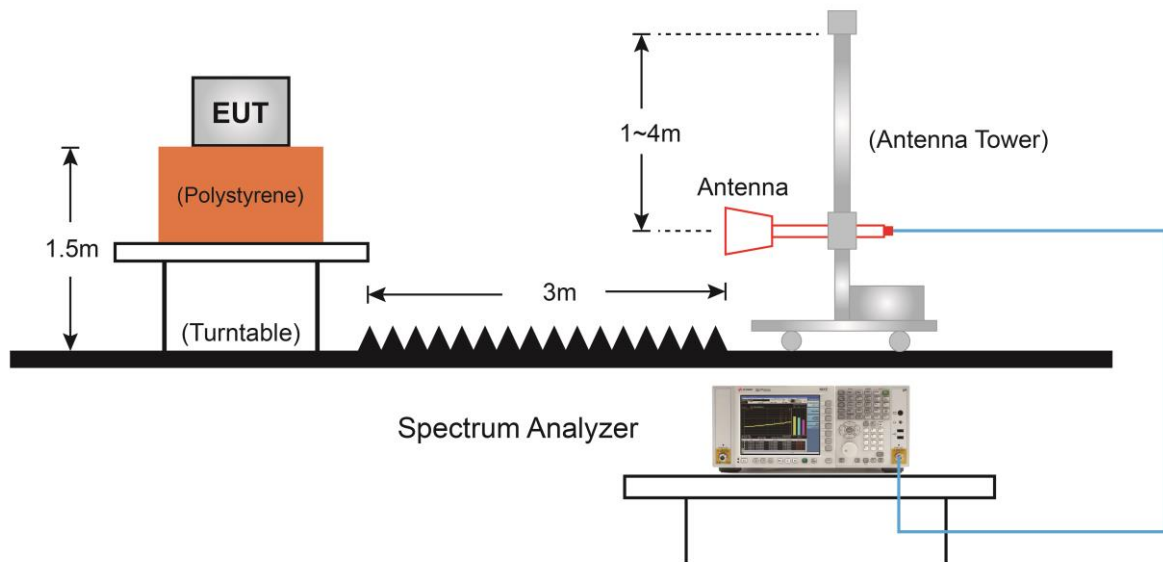
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is

applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode

5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

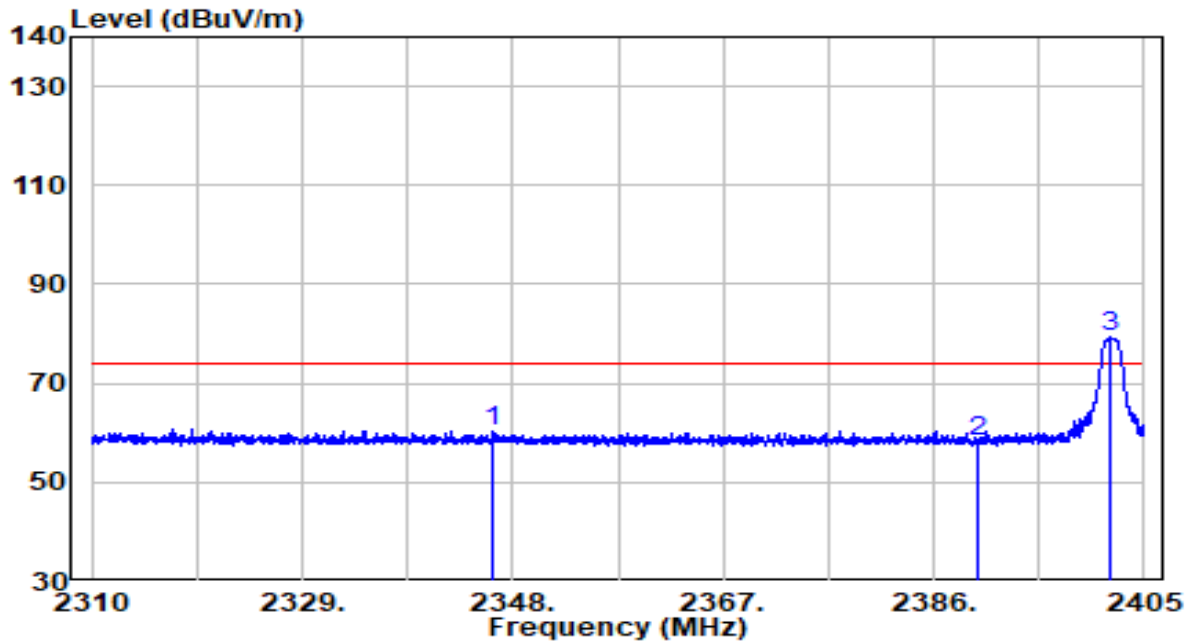
7.7.4.Test Setup



7.7.5.Test Result

Bluetooth chip 0 External Diractional Antenna

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

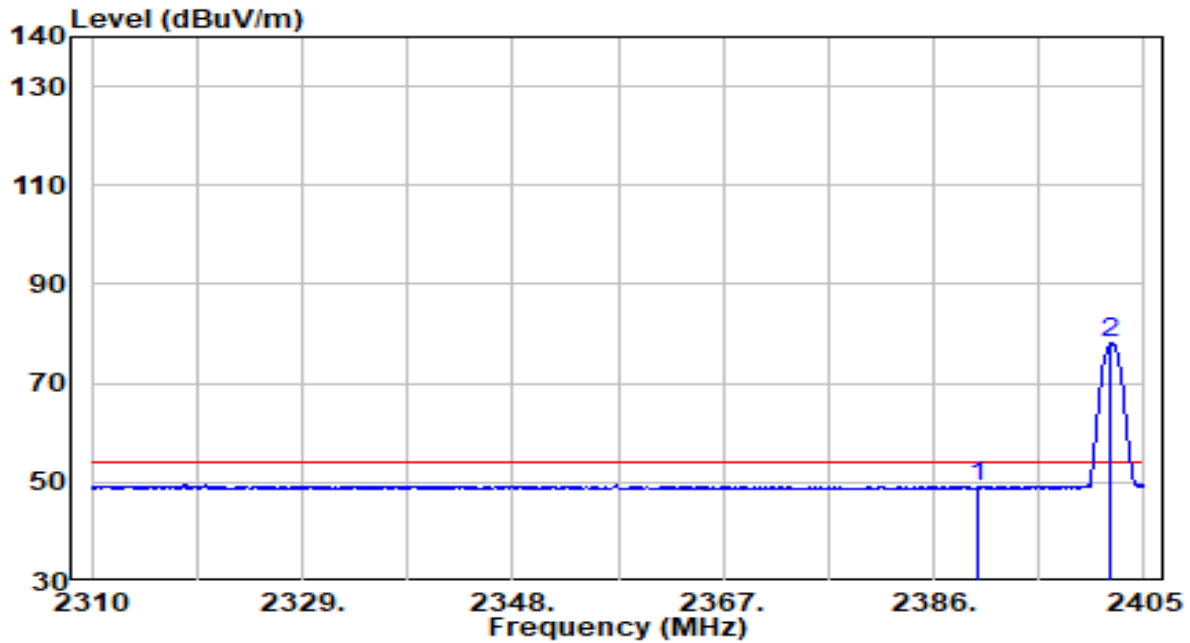


No	Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	2346.147	28.22	32.10	60.32	-13.68	74.00	Peak
2	2390.000	26.10	32.30	58.40	-15.60	74.00	Peak
3	* 2401.817	46.86	32.35	79.21	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

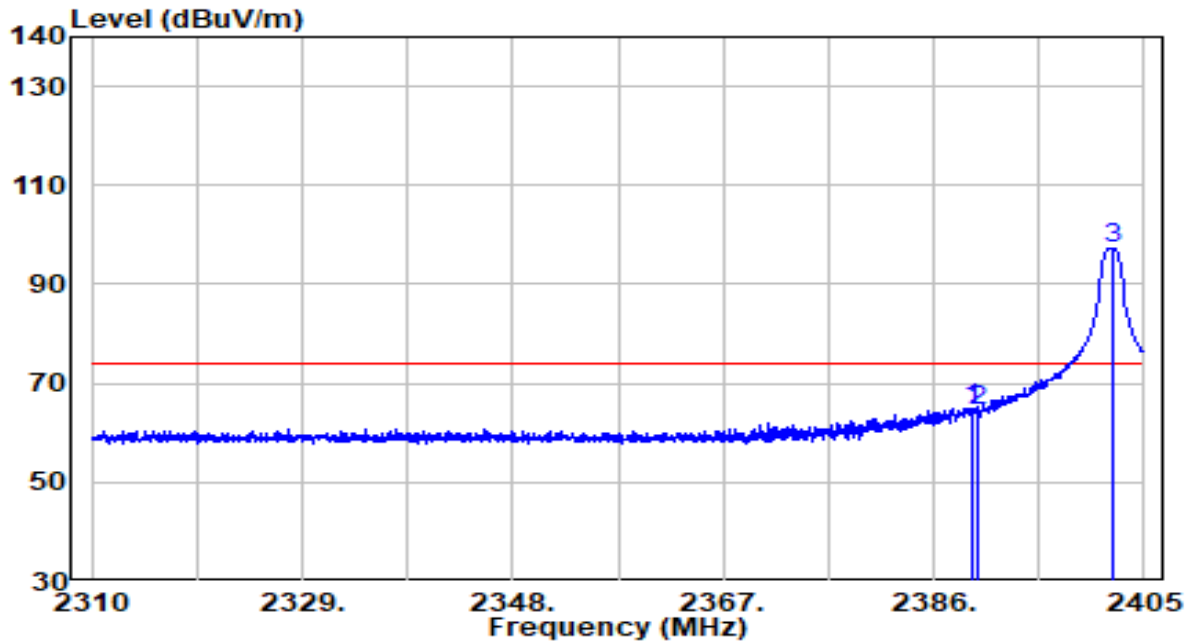


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	16.79	32.30	49.08	-4.92	54.00	Average
2	* 2402.008	45.90	32.35	78.25	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

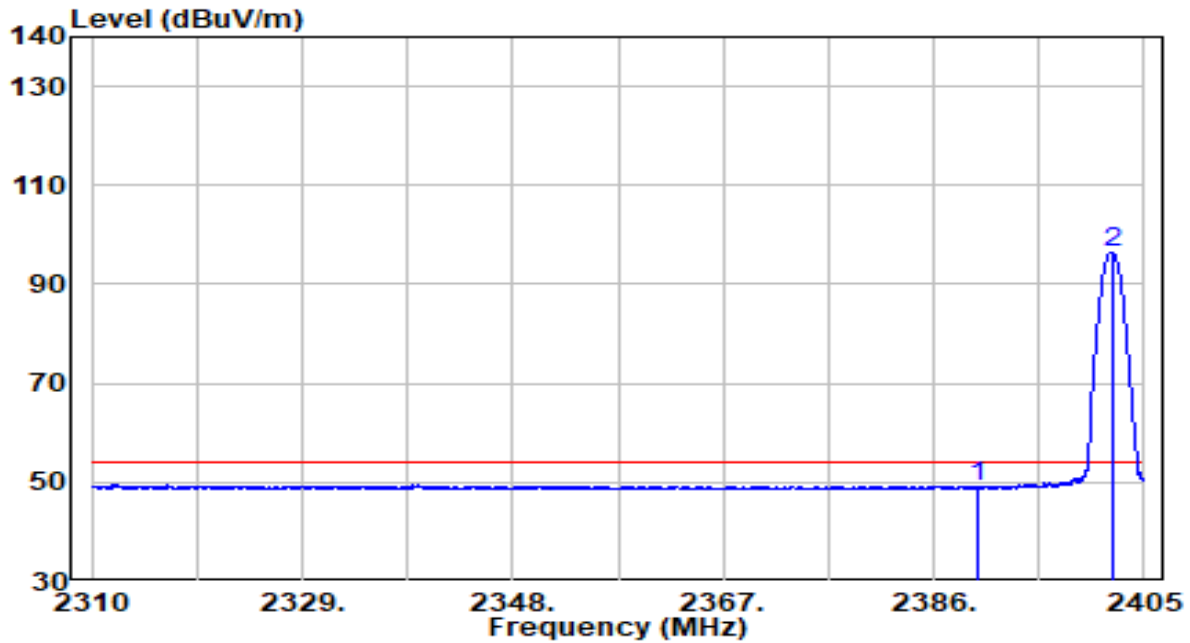


No	Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	2389.515	32.71	32.29	65.00	-9.00	74.00	Peak
2	2390.000	32.28	32.30	64.58	-9.42	74.00	Peak
3	* 2402.292	64.82	32.35	97.17	N/A	N/A	Peak

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

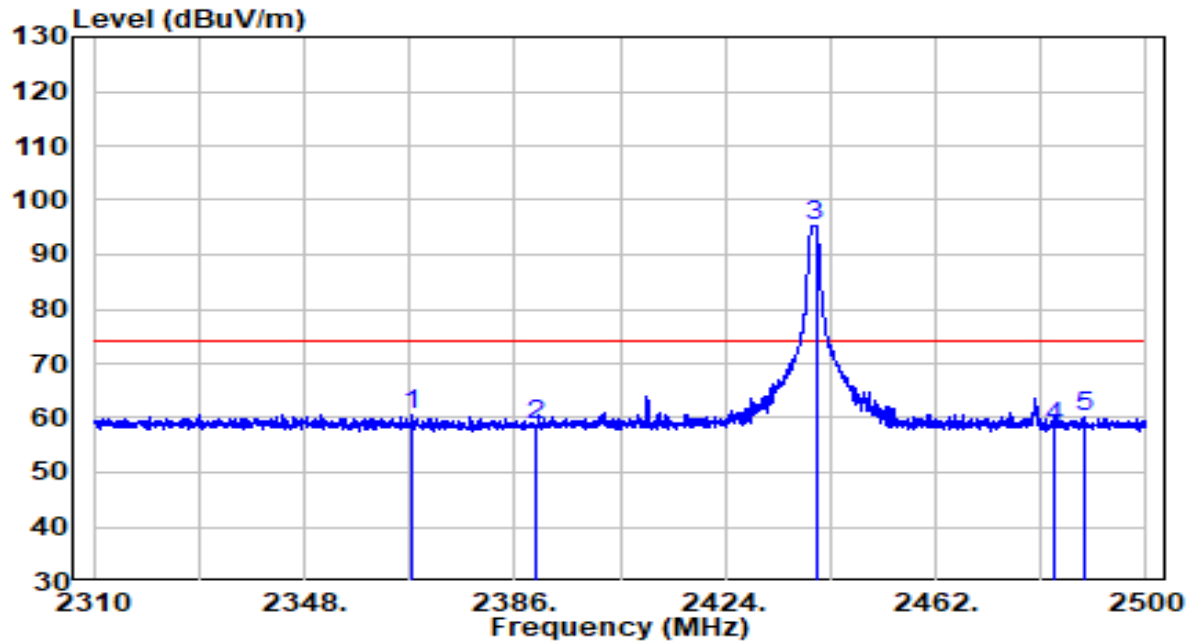


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	16.62	32.30	48.91	-5.09	54.00	Average
2	* 2402.103	64.23	32.35	96.58	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

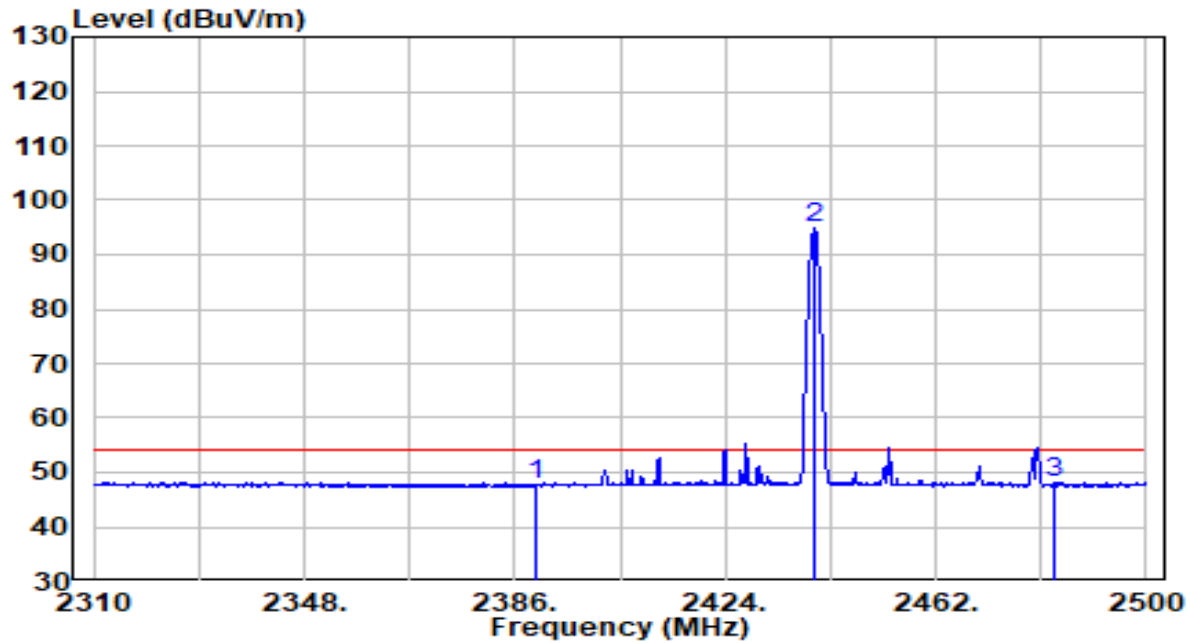


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2367.380	28.54	32.20	60.74	-13.26	74.00	Peak
2	2390.000	26.41	32.30	58.71	-15.29	74.00	Peak
3	* 2440.340	62.95	32.52	95.47	N/A	N/A	Peak
4	2483.500	25.56	32.71	58.27	-15.73	74.00	Peak
5	2488.695	27.36	32.73	60.09	-13.91	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

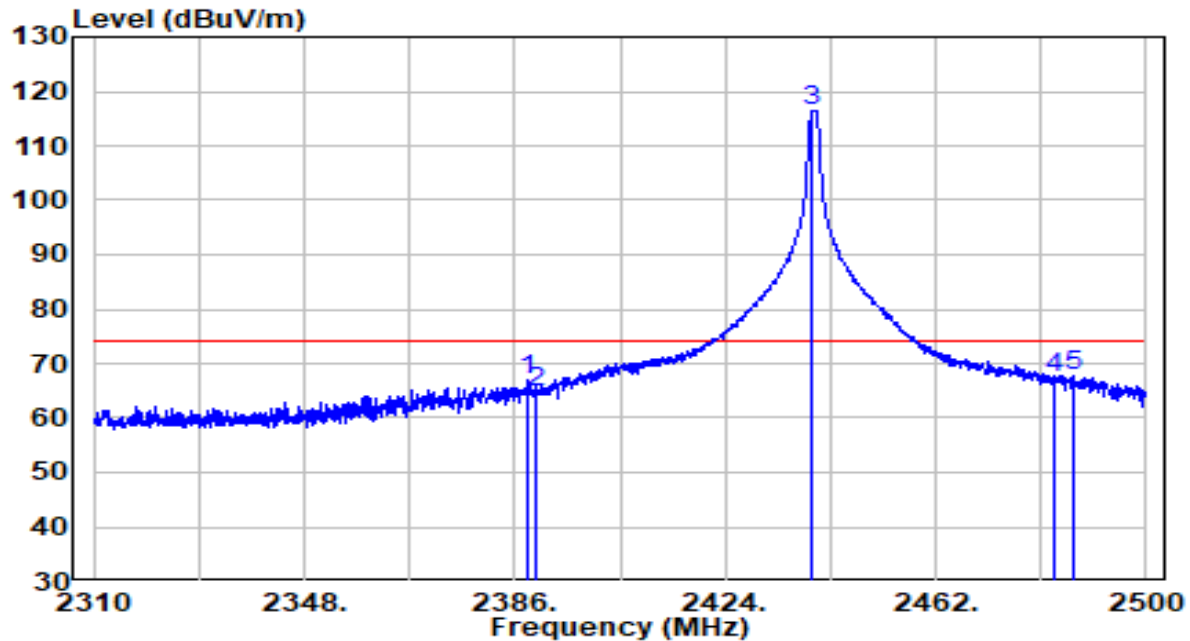


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	15.35	32.30	47.65	-6.35	54.00	Average
2	* 2440.150	62.27	32.52	94.79	N/A	N/A	Average
3	2483.500	15.27	32.71	47.98	-6.02	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

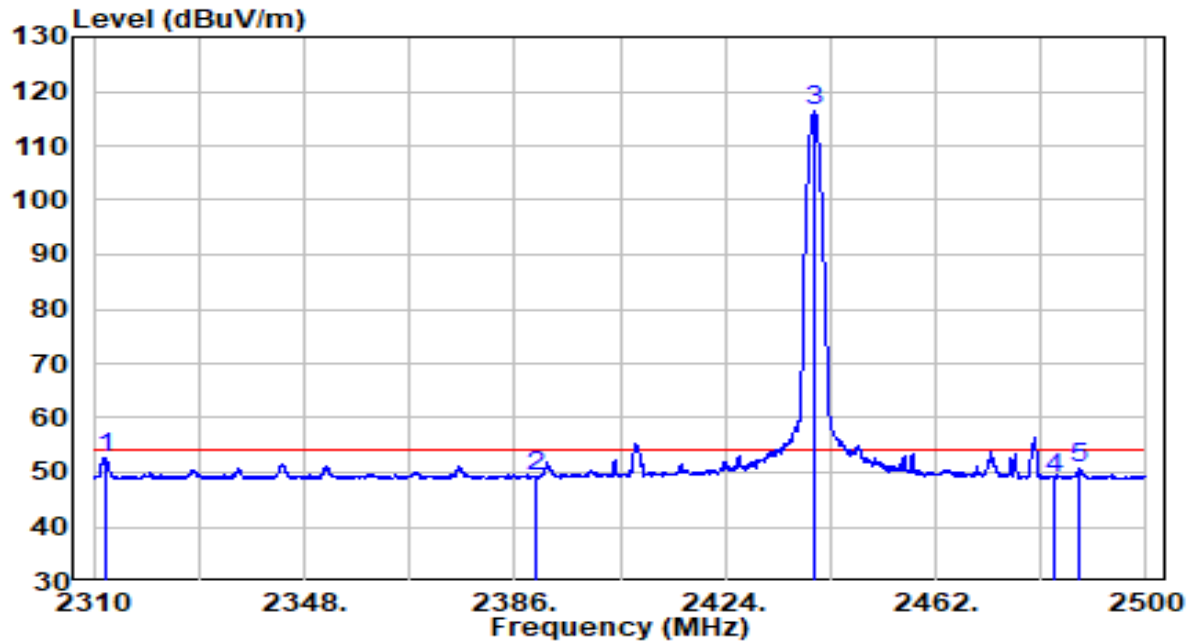


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.565	34.60	32.29	66.89	-7.11	74.00	Peak
2	2390.000	32.42	32.30	64.71	-9.29	74.00	Peak
3	* 2439.770	84.05	32.51	116.57	N/A	N/A	Peak
4	2483.500	34.61	32.71	67.32	-6.68	74.00	Peak
5	2486.700	35.19	32.72	67.91	-6.09	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

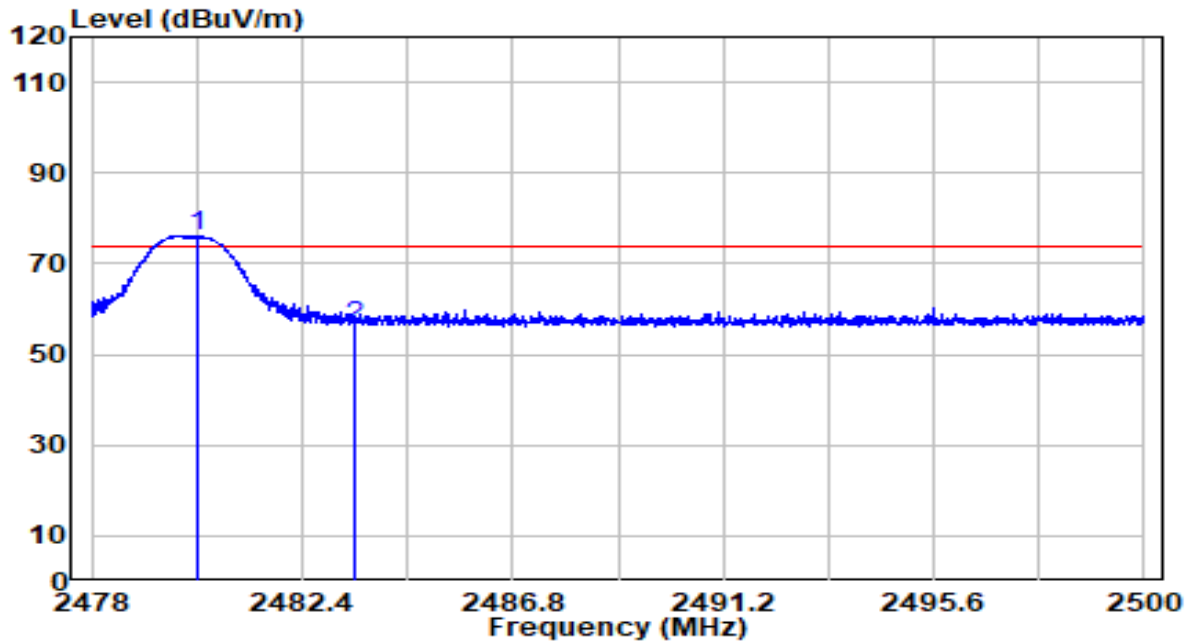


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2311.995	20.61	31.95	52.56	-1.44	54.00	Average
2	2390.000	16.91	32.30	49.21	-4.79	54.00	Average
3	* 2440.055	83.72	32.52	116.23	N/A	N/A	Average
4	2483.500	16.33	32.71	49.04	-4.96	54.00	Average
5	2488.030	17.88	32.73	50.61	-3.39	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480Mhz	Test Voltage	120V/60Hz

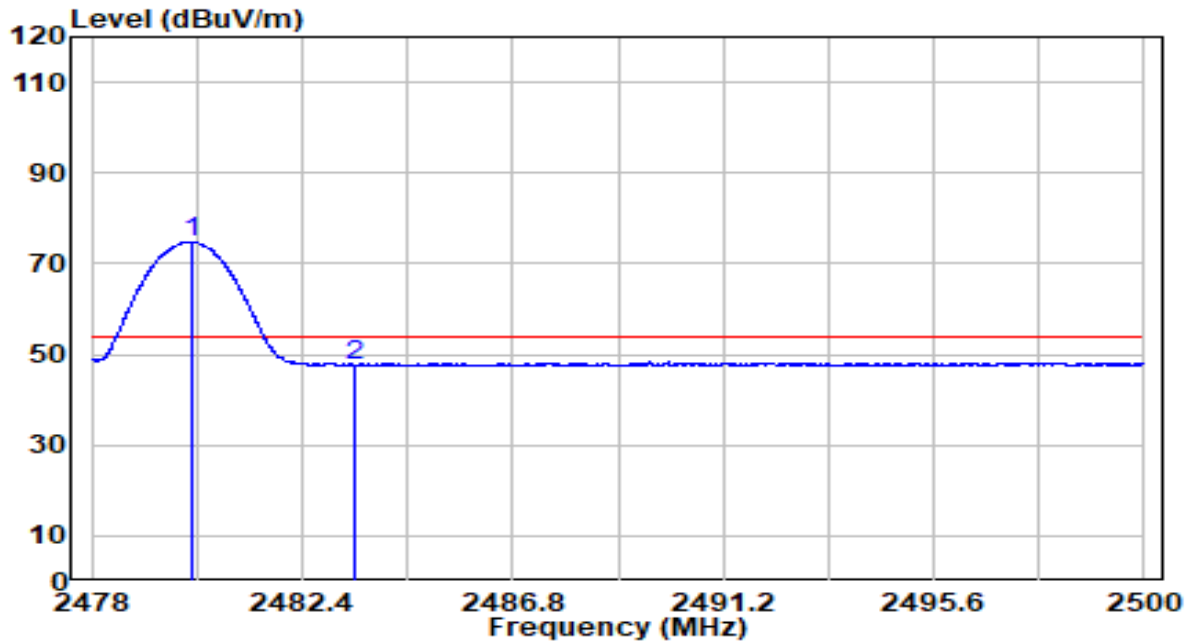


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.222	43.43	32.69	76.12	N/A	N/A	Peak
2		2483.500	23.58	32.71	56.28	-17.72	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480Mhz	Test Voltage	120V/60Hz

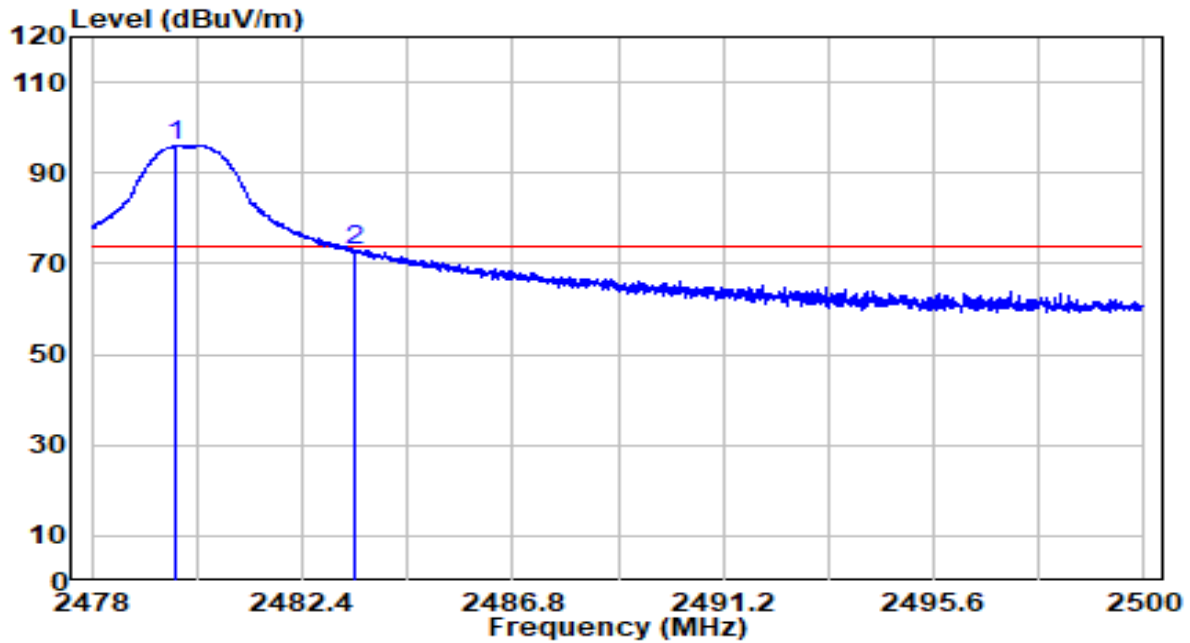


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.112	42.10	32.69	74.79	N/A	N/A	Peak
2		2483.500	14.90	32.71	47.61	-6.39	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480Mhz	Test Voltage	120V/60Hz

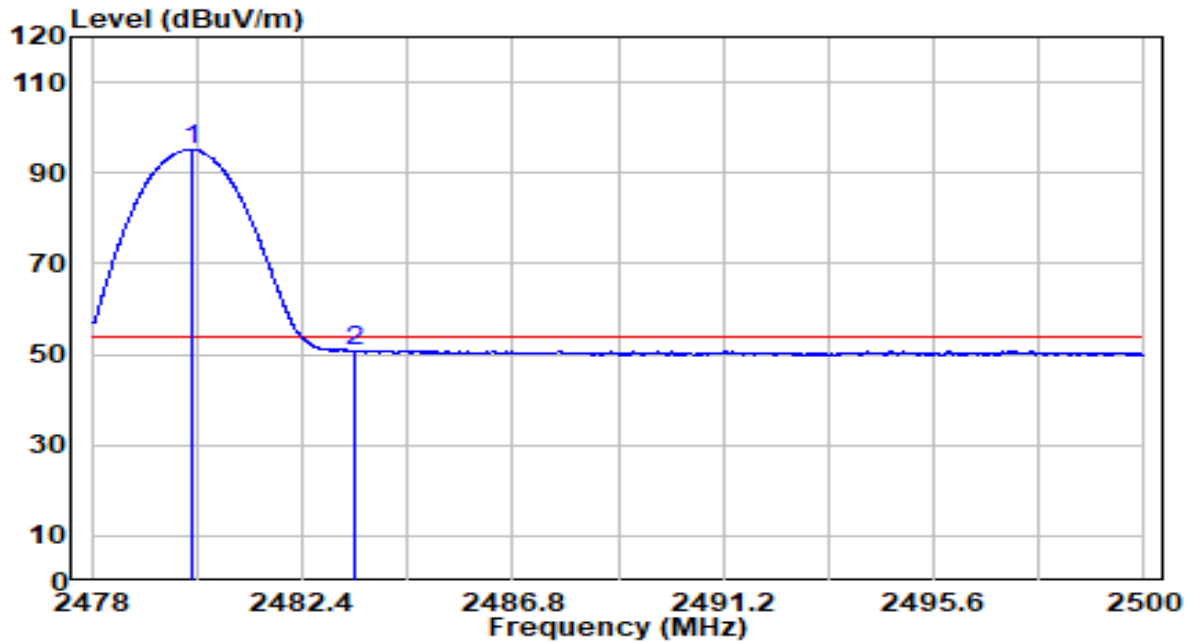


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.749	63.26	32.69	95.95	N/A	N/A	Peak
2		2483.500	40.23	32.71	72.94	-1.06	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480Mhz	Test Voltage	120V/60Hz

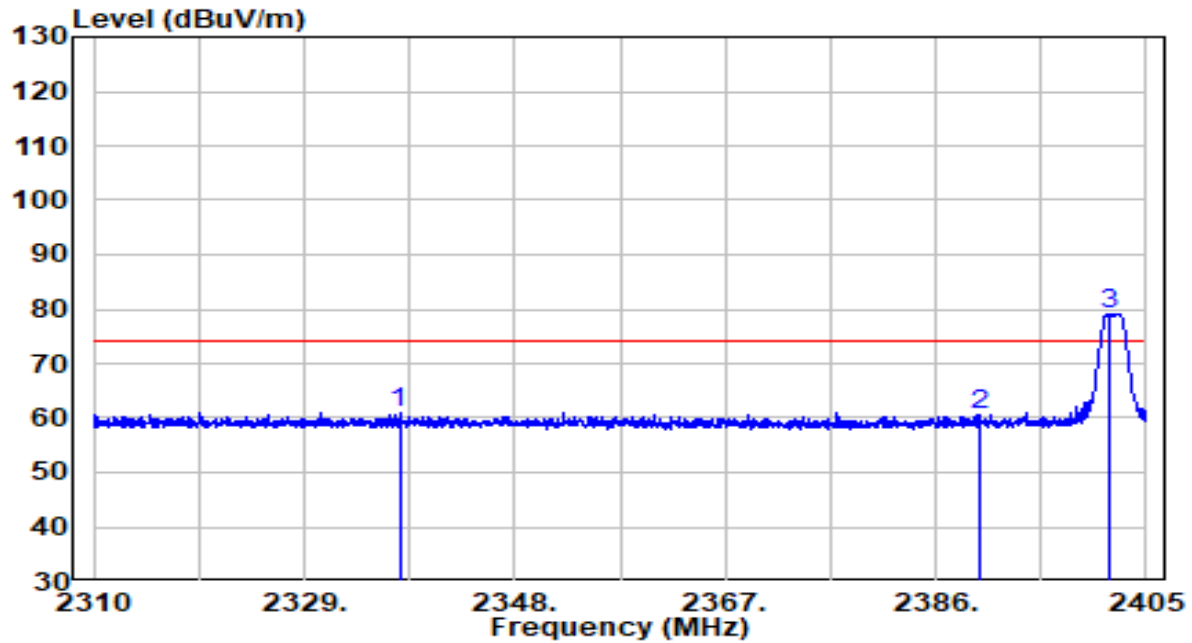


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.090	62.46	32.69	95.15	N/A	N/A	Peak
2		2483.500	18.00	32.71	50.71	-3.29	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

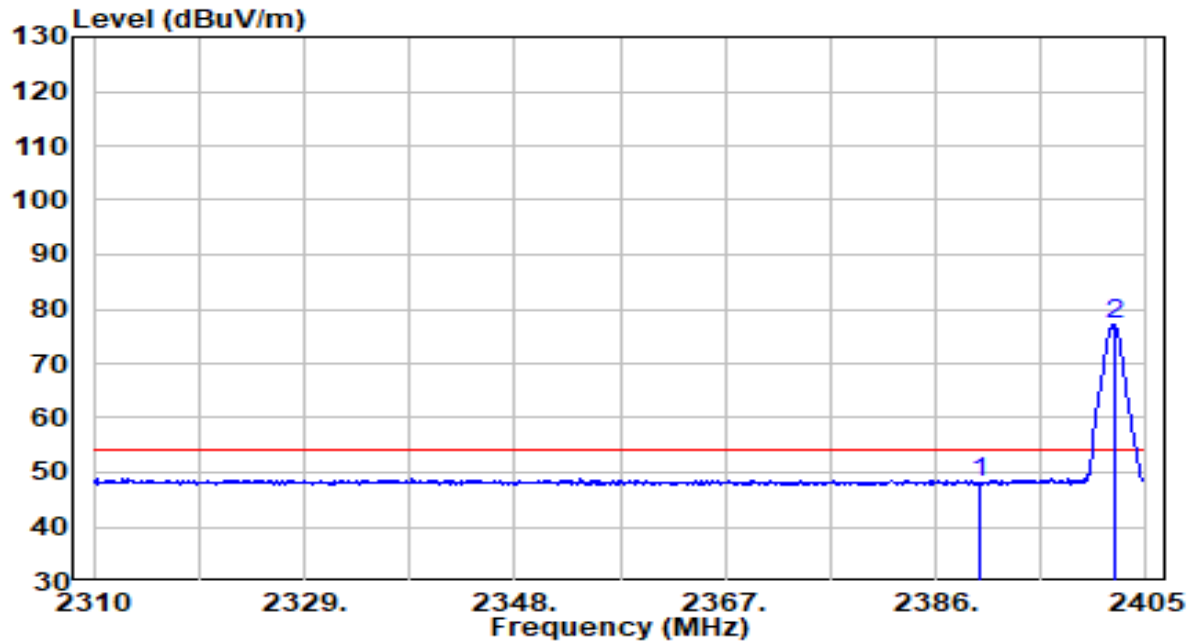


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2337.597	28.86	32.07	60.92	-13.08	74.00	Peak
2	2390.000	28.18	32.30	60.48	-13.52	74.00	Peak
3	* 2401.627	46.88	32.35	79.23	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

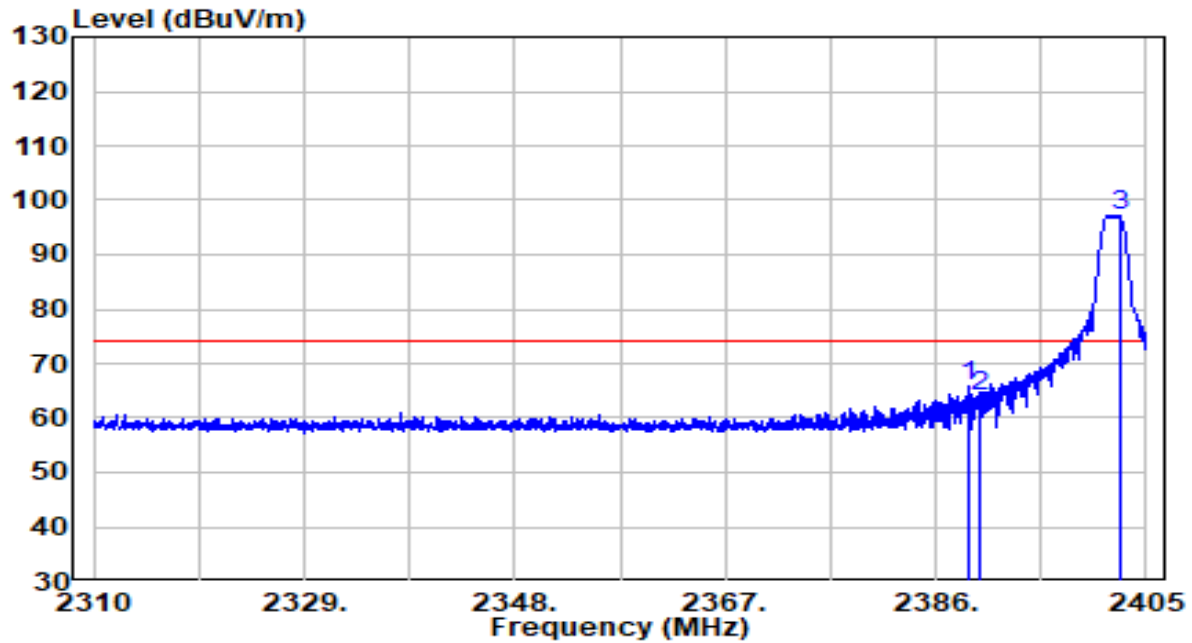


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	15.69	32.30	47.98	-6.02	54.00	Average
2	* 2402.103	44.93	32.35	77.28	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

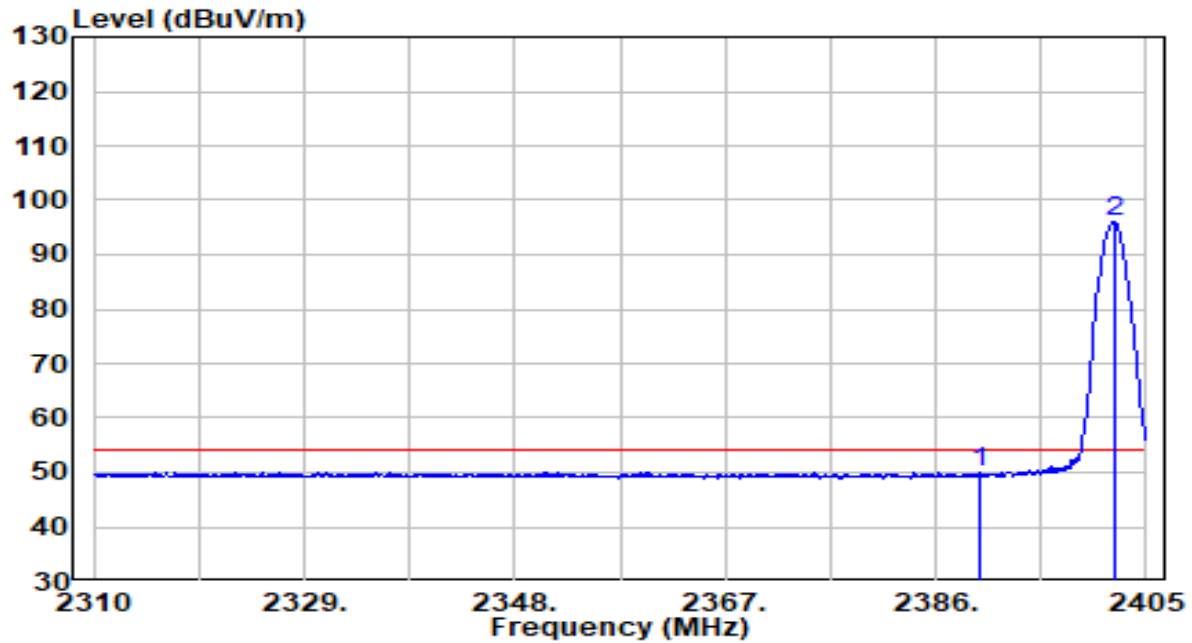


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.087	33.40	32.29	65.70	-8.30	74.00	Peak
2	2390.000	31.52	32.30	63.81	-10.19	74.00	Peak
3	* 2402.577	64.81	32.35	97.16	N/A	N/A	Peak

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

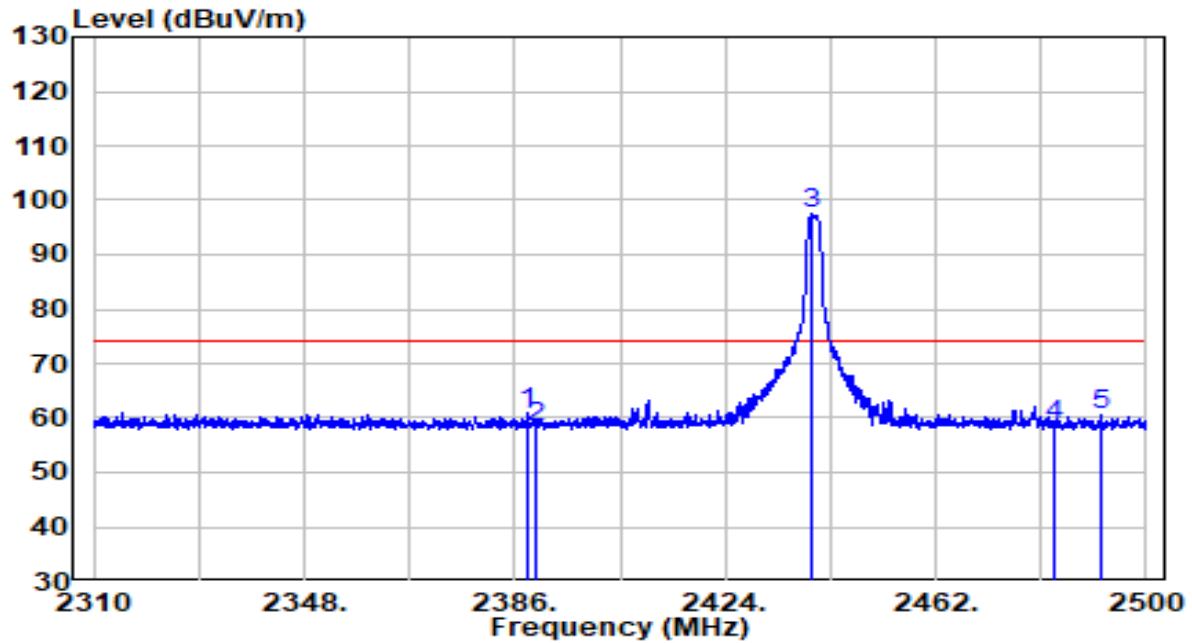


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	17.57	32.30	49.87	-4.13	54.00	Average
2	* 2402.103	63.67	32.35	96.02	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

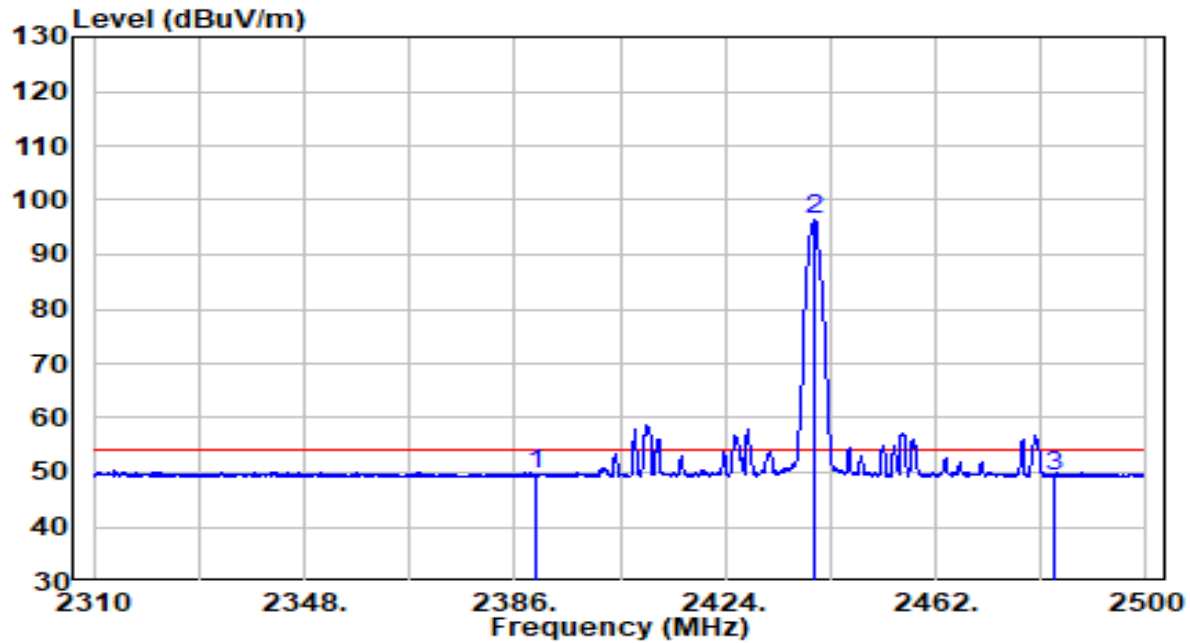


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.375	28.62	32.29	60.91	-13.09	74.00	Peak
2	2390.000	26.13	32.30	58.43	-15.57	74.00	Peak
3	* 2439.580	64.93	32.51	97.44	N/A	N/A	Peak
4	2483.500	25.89	32.71	58.60	-15.40	74.00	Peak
5	2491.735	27.75	32.74	60.50	-13.50	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

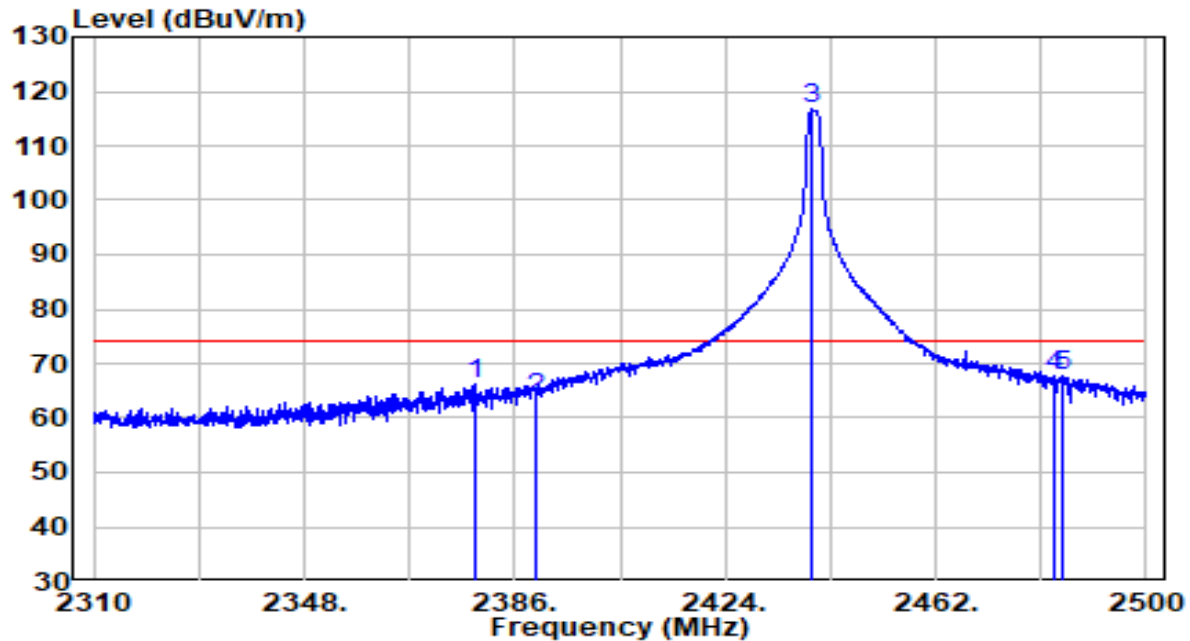


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	17.17	32.30	49.47	-4.53	54.00	Average
2	* 2440.055	63.79	32.52	96.31	N/A	N/A	Average
3	2483.500	16.51	32.71	49.22	-4.78	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

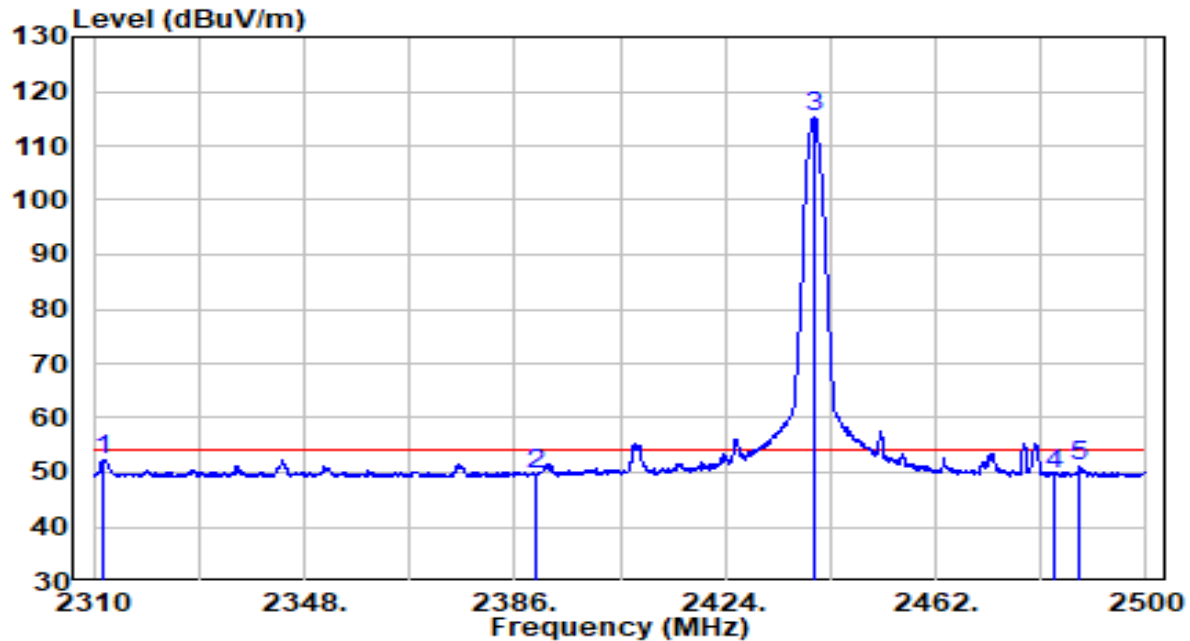


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2378.970	34.01	32.25	66.26	-7.74	74.00	Peak
2	2390.000	31.21	32.30	63.51	-10.49	74.00	Peak
3	* 2439.580	84.12	32.51	116.63	N/A	N/A	Peak
4	2483.500	35.08	32.71	67.78	-6.22	74.00	Peak
5	2484.990	34.97	32.71	67.68	-6.32	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

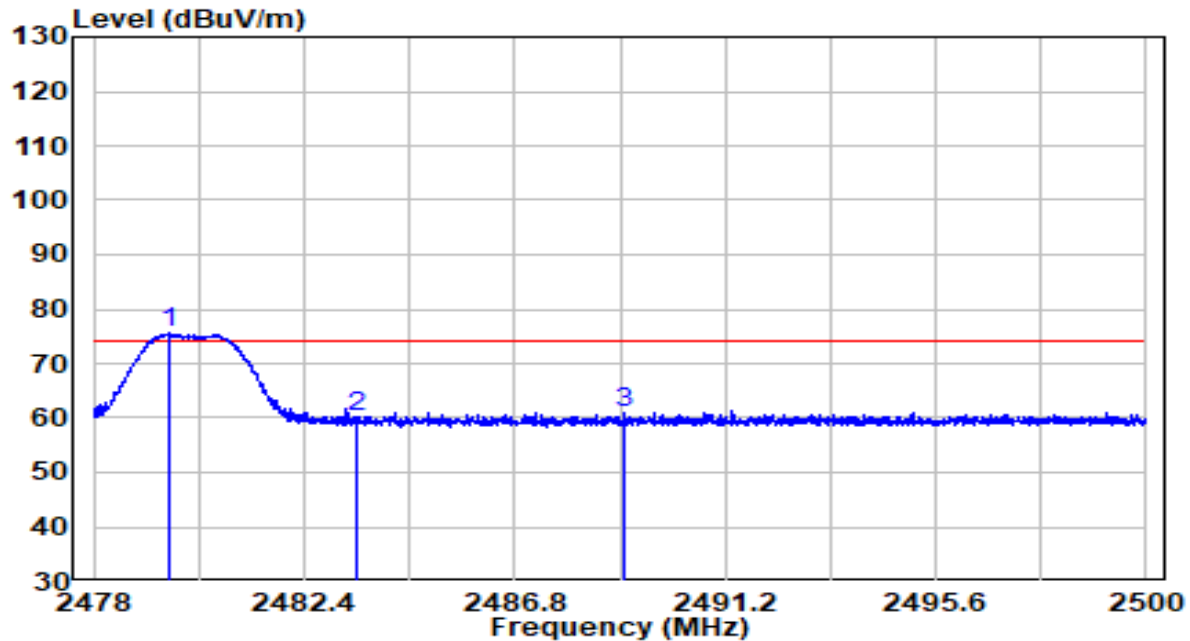


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2311.900	20.41	31.95	52.37	-1.63	54.00	Average
2	2390.000	17.31	32.30	49.60	-4.40	54.00	Average
3	* 2440.150	82.83	32.52	115.35	N/A	N/A	Average
4	2483.530	16.97	32.71	49.68	-4.32	54.00	Average
5	2487.840	18.41	32.73	51.14	-2.86	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

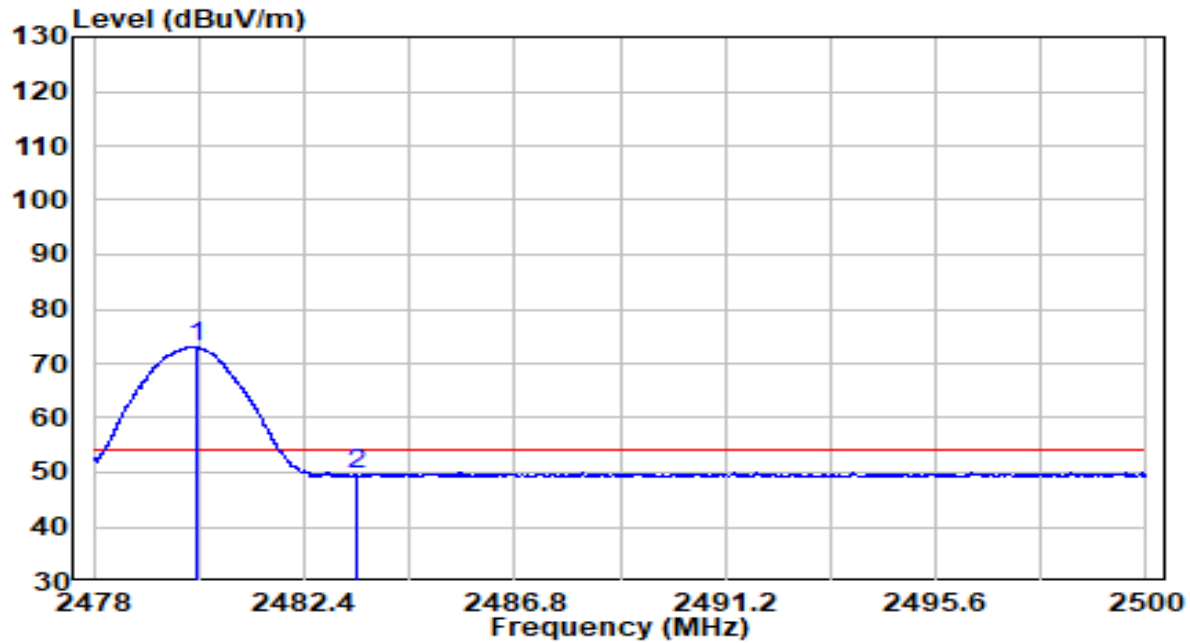


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.584	42.80	32.69	75.49	N/A	N/A	Peak
2		2483.500	27.41	32.71	60.12	-13.88	74.00	Peak
3		2489.077	28.23	32.73	60.96	-13.04	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

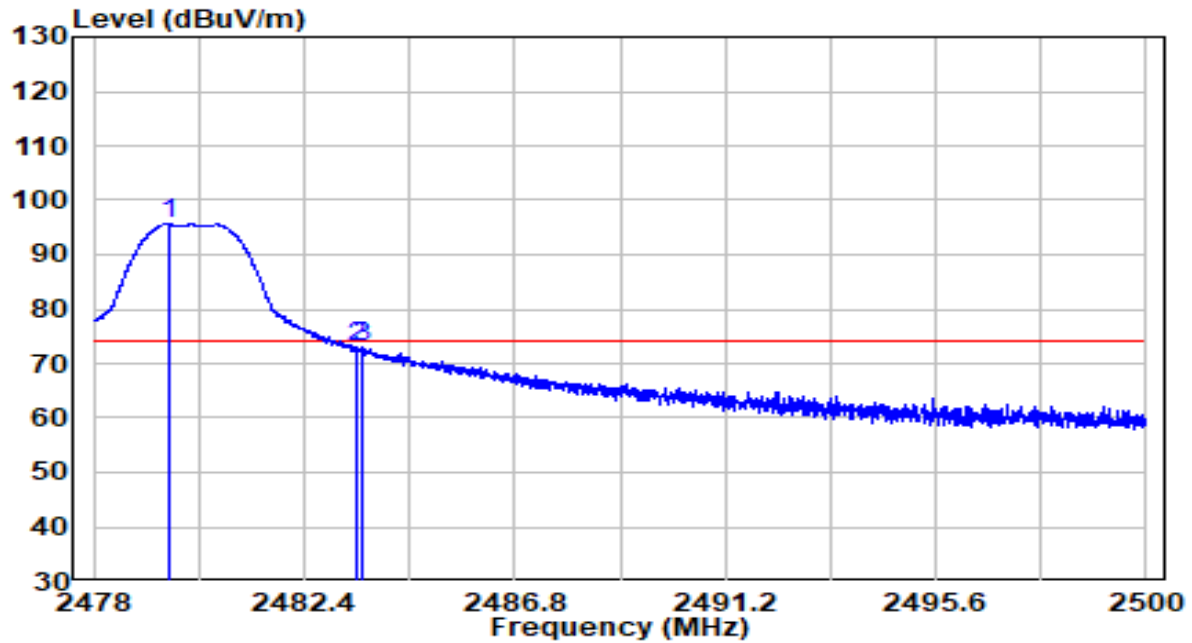


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.134	40.36	32.69	73.05	N/A	N/A	Average
2		2483.500	16.85	32.71	49.56	-4.44	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

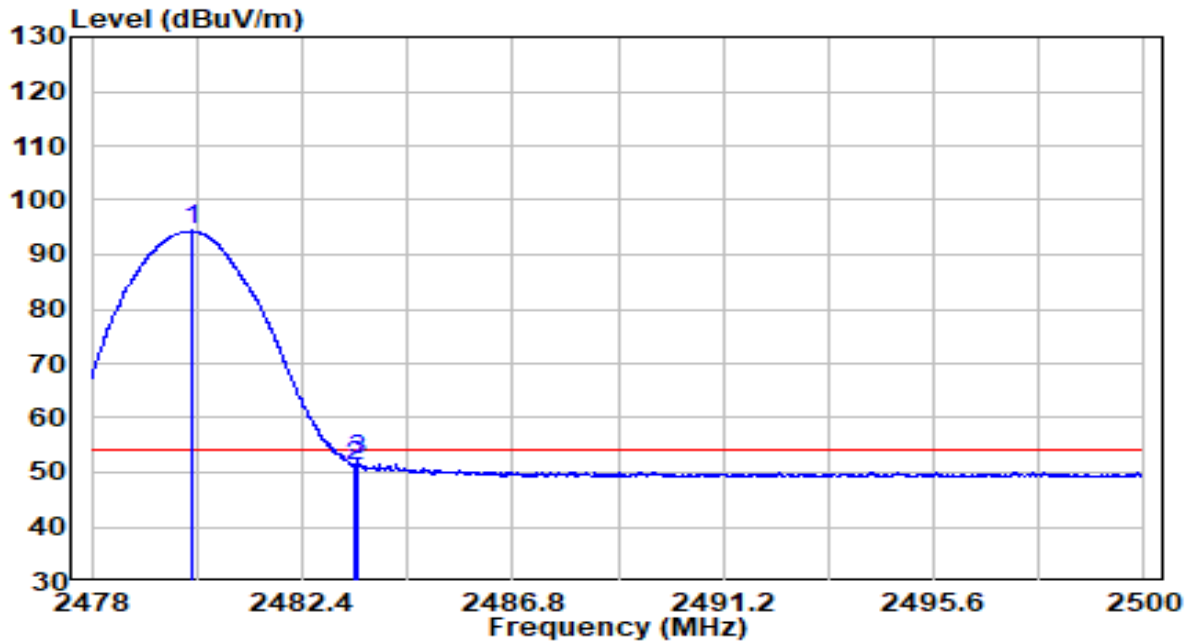


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.573	62.93	32.69	95.62	N/A	N/A	Peak
2		2483.500	40.18	32.71	72.89	-1.11	74.00	Peak
3		2483.621	40.33	32.71	73.03	-0.97	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz



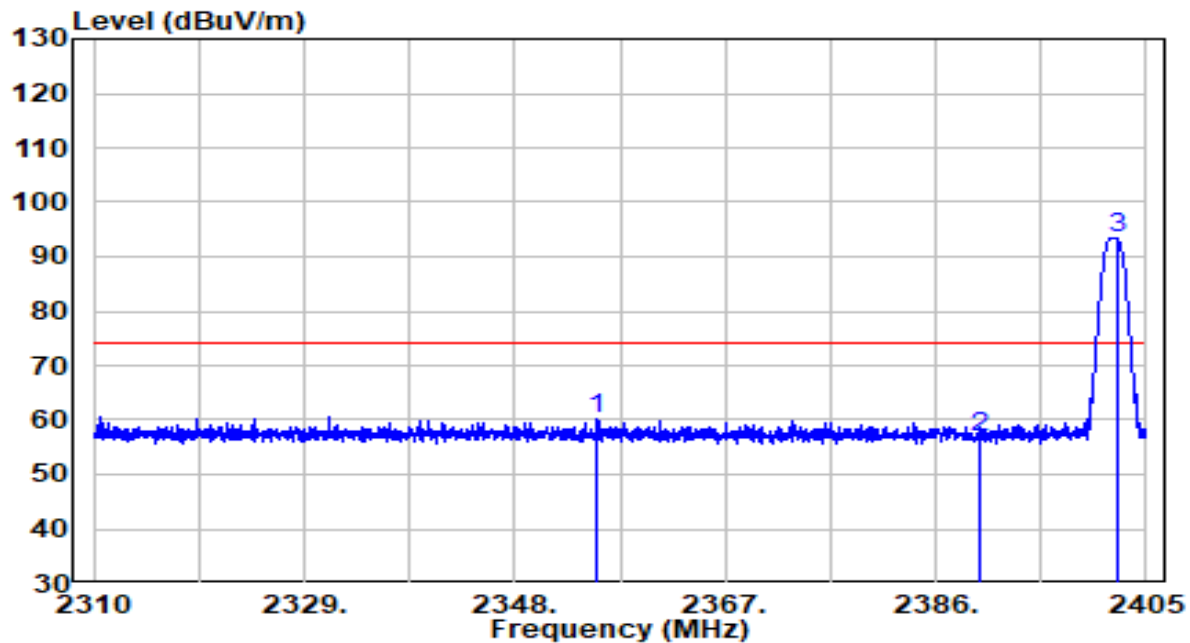
No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.123	61.66	32.69	94.35	N/A	N/A	Average
2		2483.500	18.25	32.71	50.96	-3.04	54.00	Average
3		2483.544	19.38	32.71	52.09	-1.91	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Bluetooth chip 1 External Antenna

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

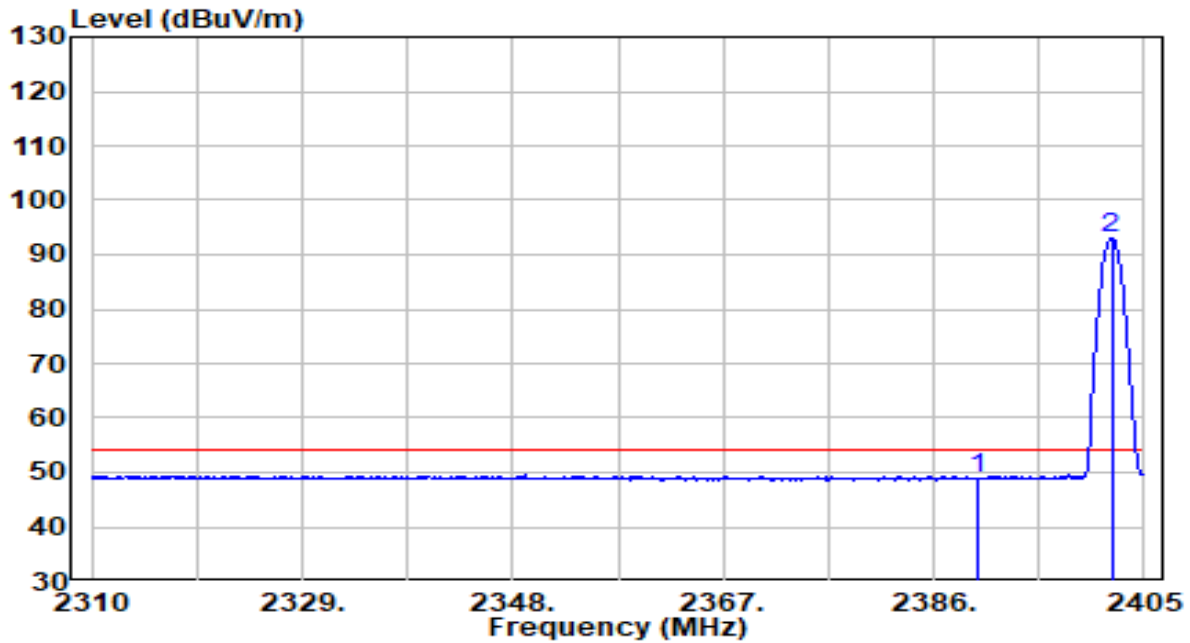


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2355.505	27.89	32.14	60.03	-13.97	74.00	Peak
2	2390.000	24.37	32.30	56.67	-17.33	74.00	Peak
3	* 2402.340	61.15	32.35	93.50	N/A	N/A	Peak

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

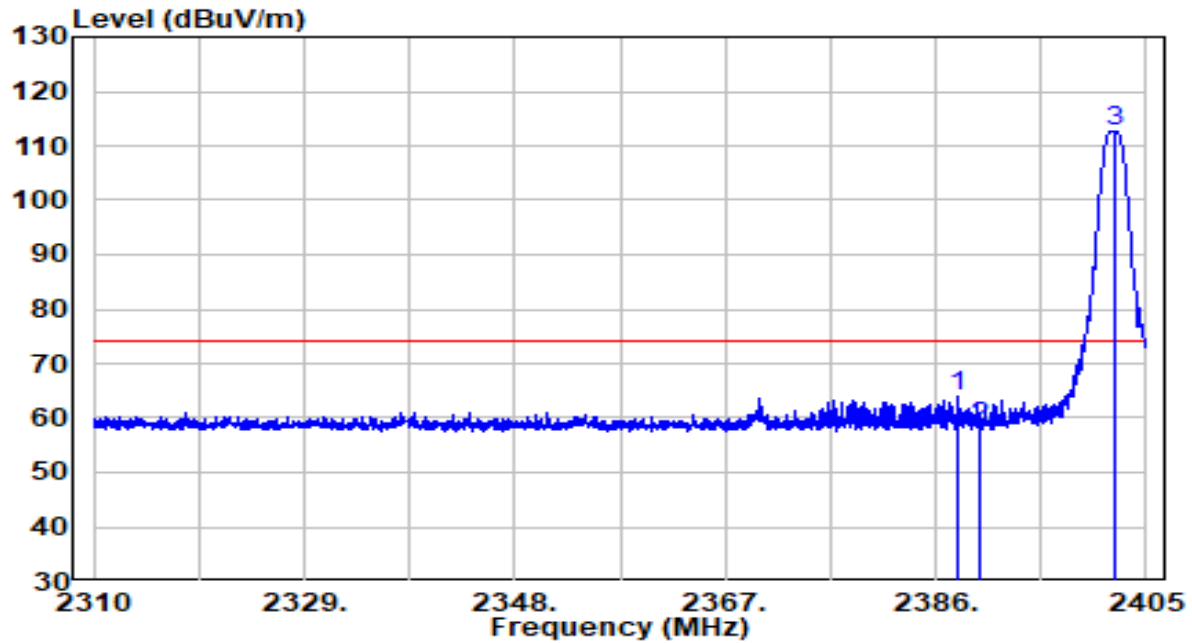


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	16.65	32.30	48.94	-5.06	54.00	Average
2	* 2402.055	60.75	32.35	93.10	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

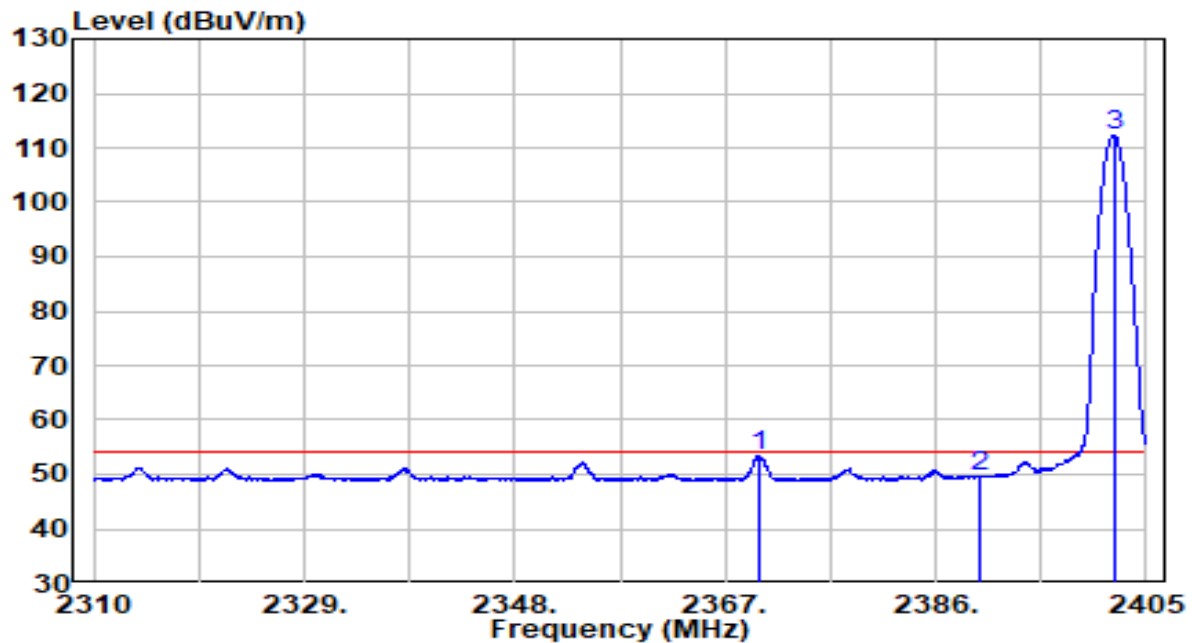


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2387.948	31.70	32.29	63.99	-10.01	74.00	Peak
2	2390.000	26.17	32.30	58.46	-15.54	74.00	Peak
3	* 2402.292	80.24	32.35	112.59	N/A	N/A	Peak

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2402MHz	Test Voltage	120V/60Hz

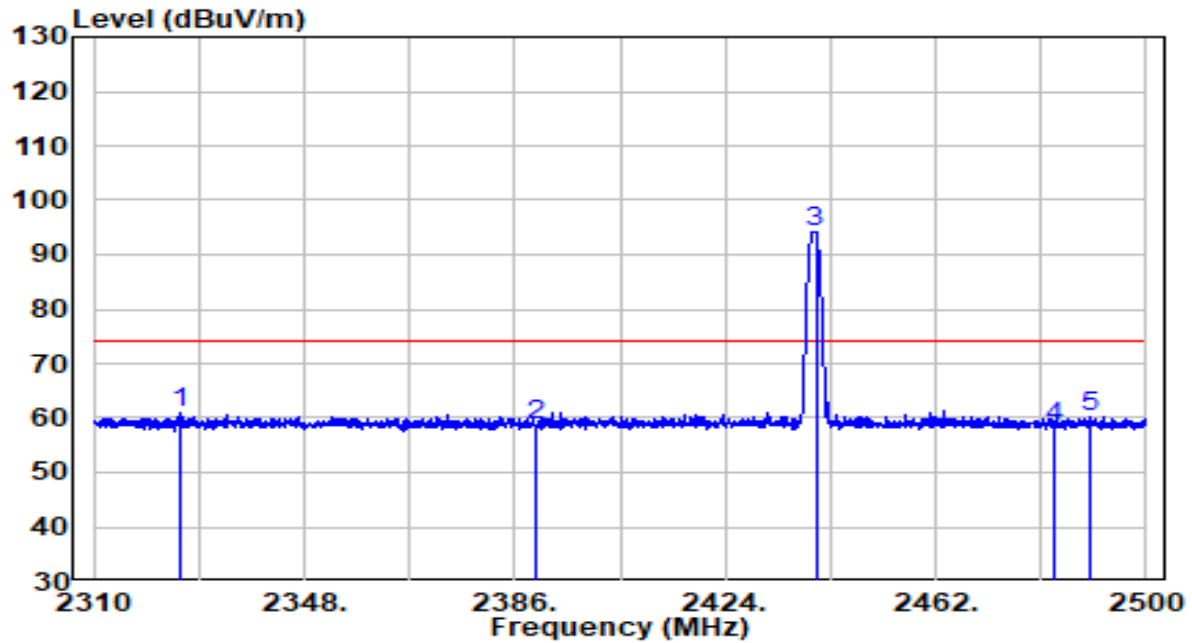


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2369.992	21.25	32.21	53.45	-0.55	54.00	Average
2	2390.000	17.27	32.30	49.56	-4.44	54.00	Average
3	* 2402.103	80.00	32.35	112.35	N/A	N/A	Average

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

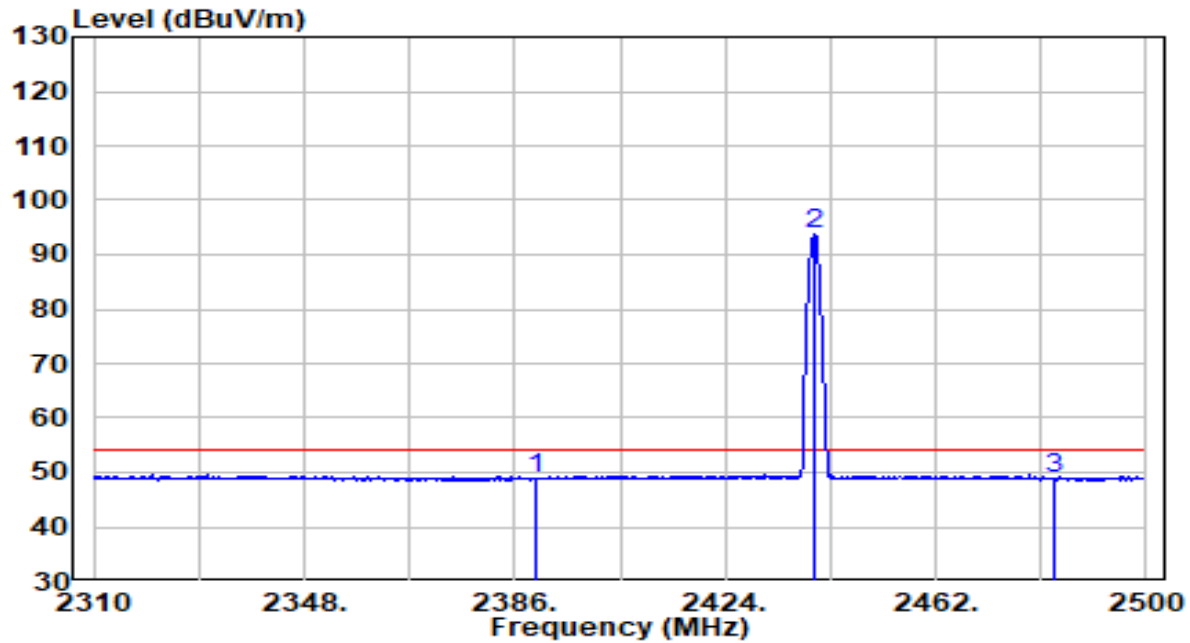


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2325.770	28.77	32.01	60.78	-13.22	74.00	Peak
2	2390.000	26.22	32.30	58.52	-15.48	74.00	Peak
3	* 2440.340	61.70	32.52	94.21	N/A	N/A	Peak
4	2483.500	25.54	32.71	58.25	-15.75	74.00	Peak
5	2489.645	27.47	32.73	60.20	-13.80	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

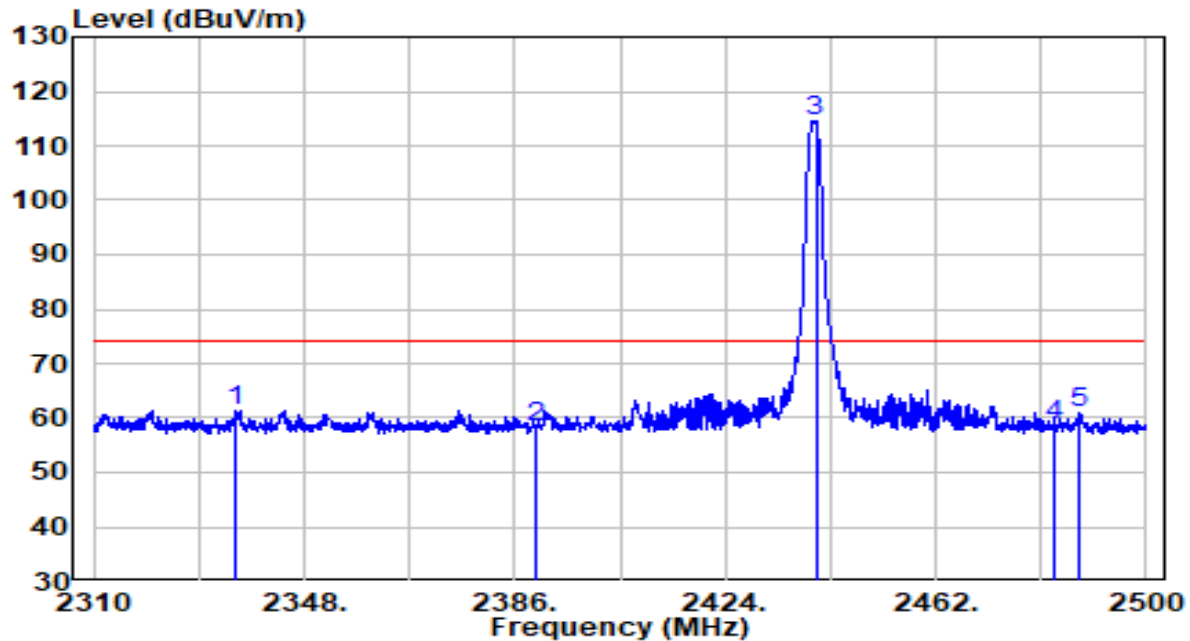


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	16.63	32.30	48.92	-5.08	54.00	Average
2	* 2440.150	61.28	32.52	93.79	N/A	N/A	Average
3	2483.500	16.12	32.71	48.83	-5.17	54.00	Average

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

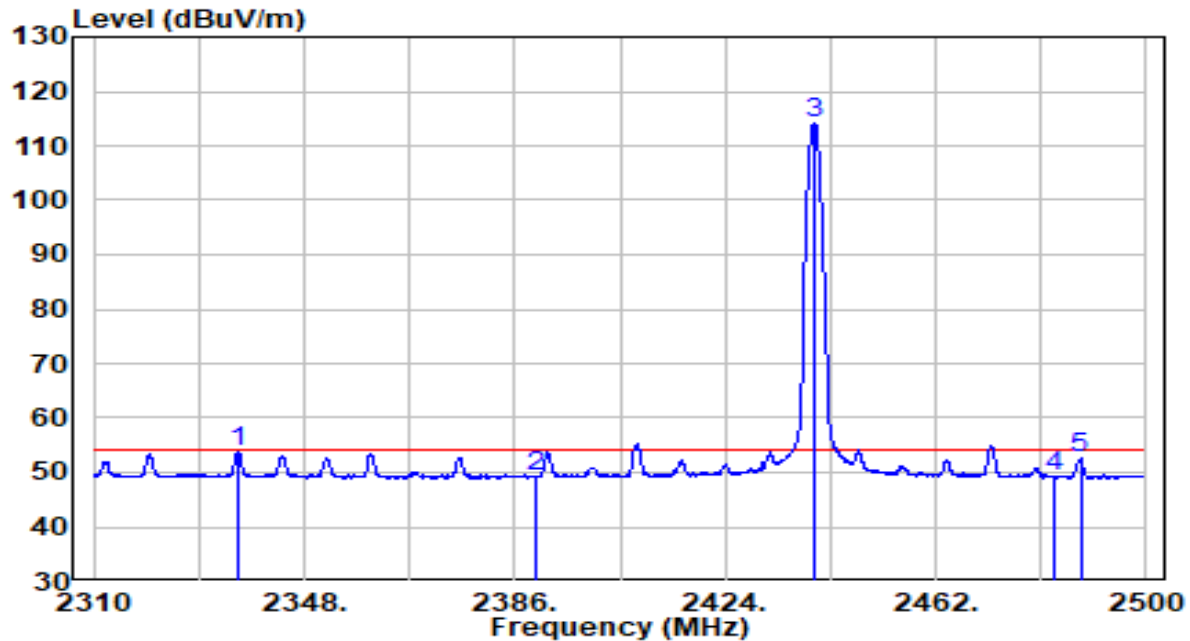


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2335.745	29.43	32.06	61.48	-12.52	74.00	Peak
2	2390.000	26.03	32.30	58.33	-15.67	74.00	Peak
3	* 2440.340	81.86	32.52	114.38	N/A	N/A	Peak
4	2483.500	26.13	32.71	58.84	-15.16	74.00	Peak
5	2487.935	28.10	32.73	60.83	-13.17	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2440MHz	Test Voltage	120V/60Hz

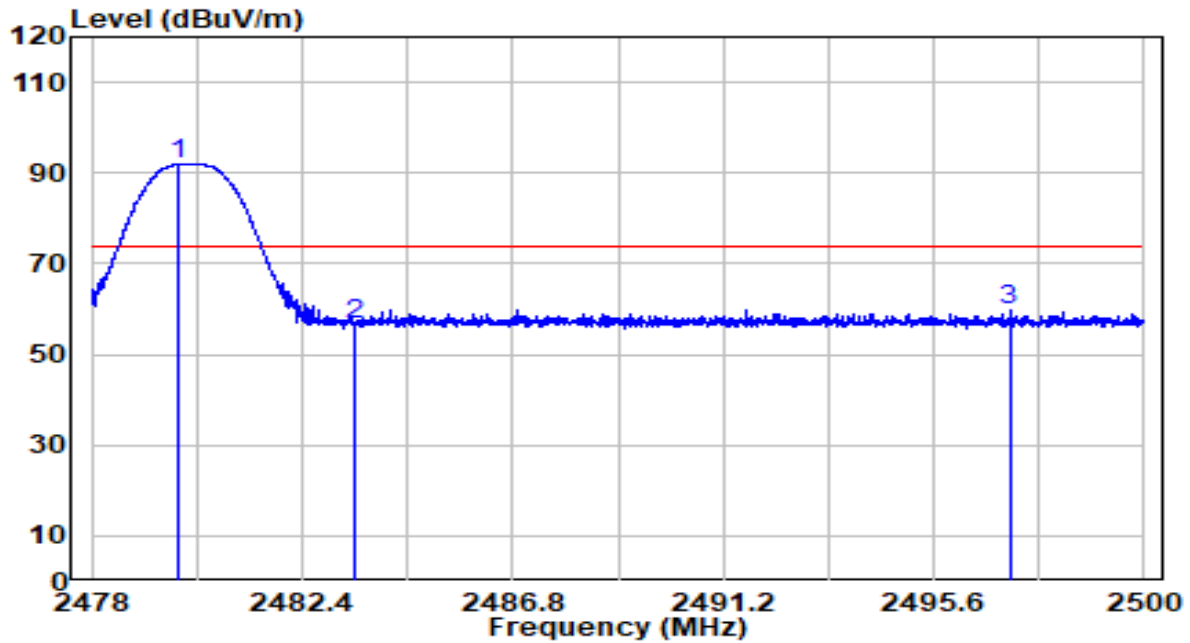


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2335.840	21.67	32.06	53.73	-0.27	54.00	Average
2	2390.000	16.88	32.30	49.18	-4.82	54.00	Average
3	* 2440.150	81.76	32.52	114.28	N/A	N/A	Average
4	2483.500	16.45	32.71	49.16	-4.84	54.00	Average
5	2488.125	19.81	32.73	52.54	-1.46	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

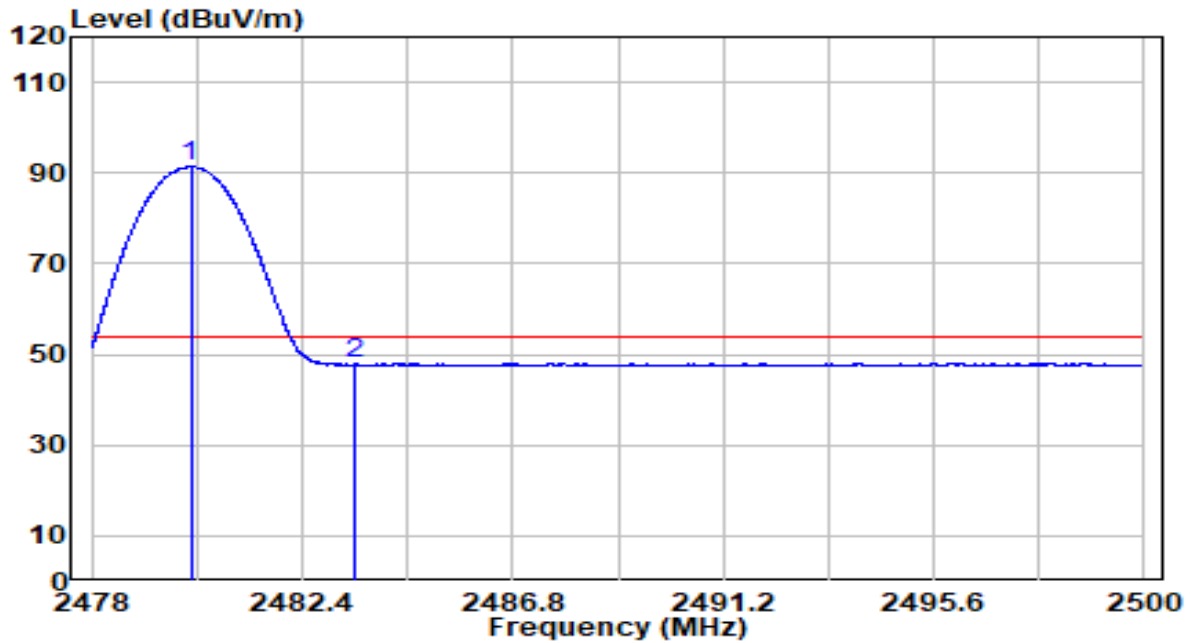


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.782	59.19	32.69	91.88	N/A	N/A	Peak
2		2483.500	24.10	32.71	56.81	-17.19	74.00	Peak
3		2497.184	27.10	32.77	59.86	-14.14	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

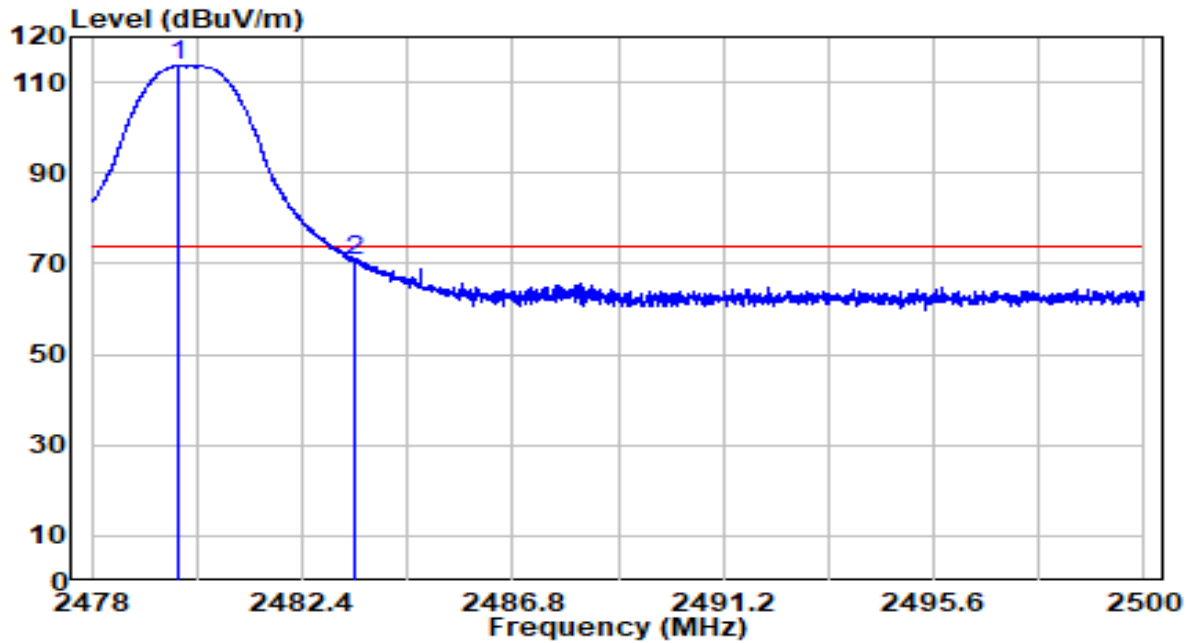


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.068	58.67	32.69	91.36	N/A	N/A	Average
2		2483.500	15.09	32.71	47.80	-6.20	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

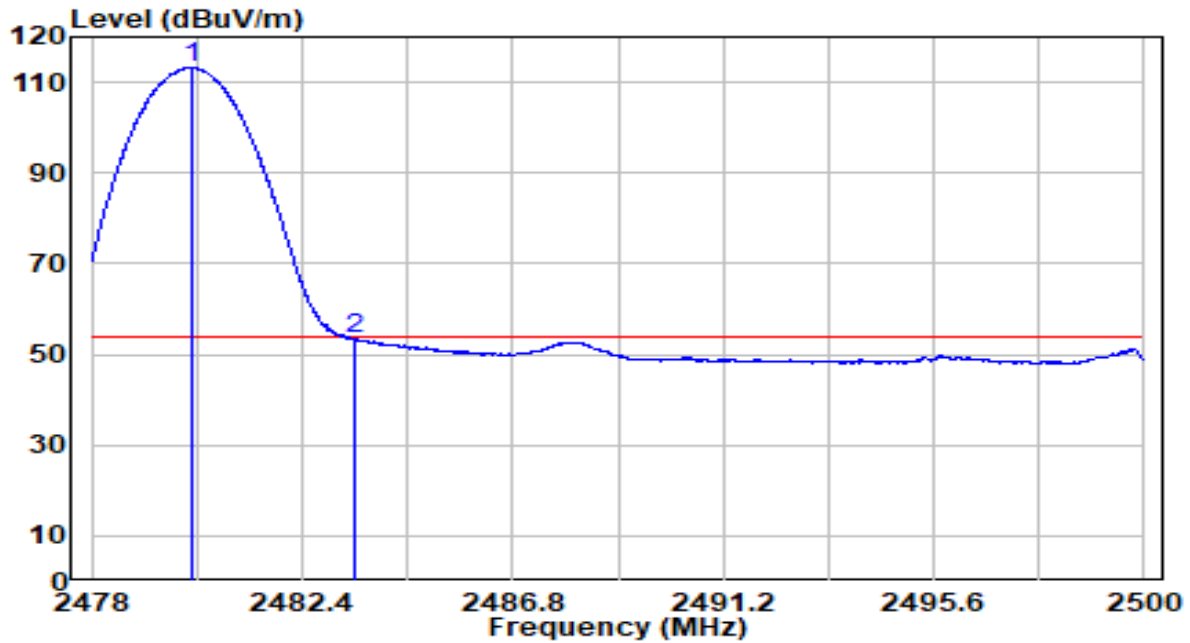


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.782	80.84	32.69	113.53	N/A	N/A	Peak
2		2483.500	38.02	32.71	70.73	-3.27	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 1M at Channel 2480MHz	Test Voltage	120V/60Hz

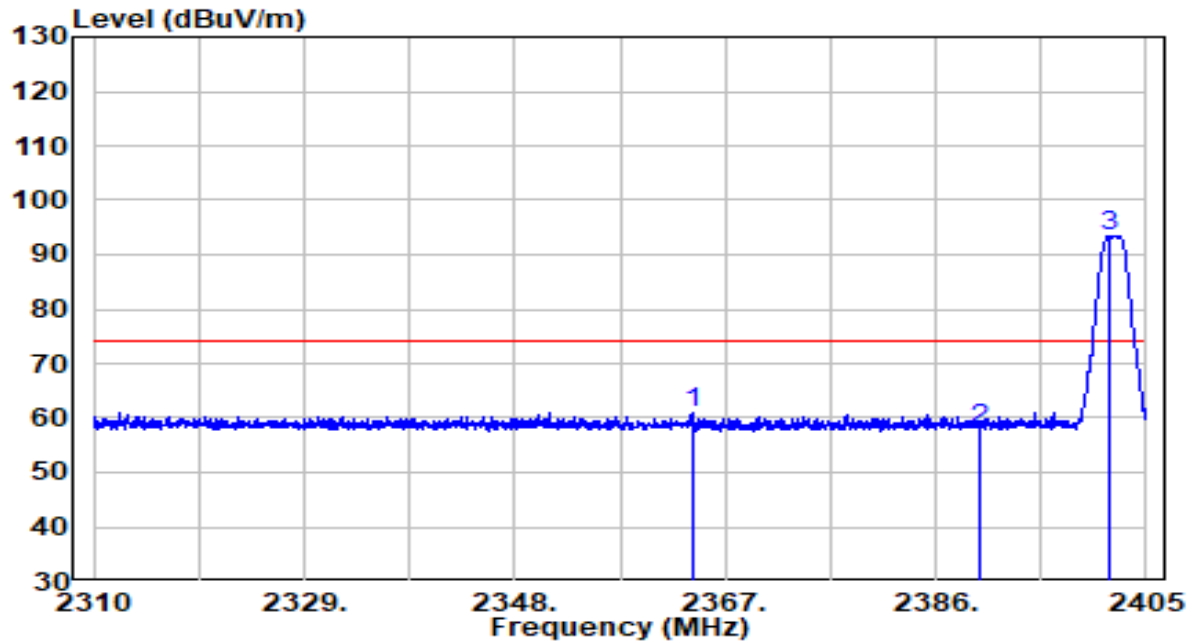


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.090	80.49	32.69	113.18	N/A	N/A	Average
2		2483.500	20.53	32.71	53.24	-0.76	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2402MHz	Test Voltage	120V/60Hz

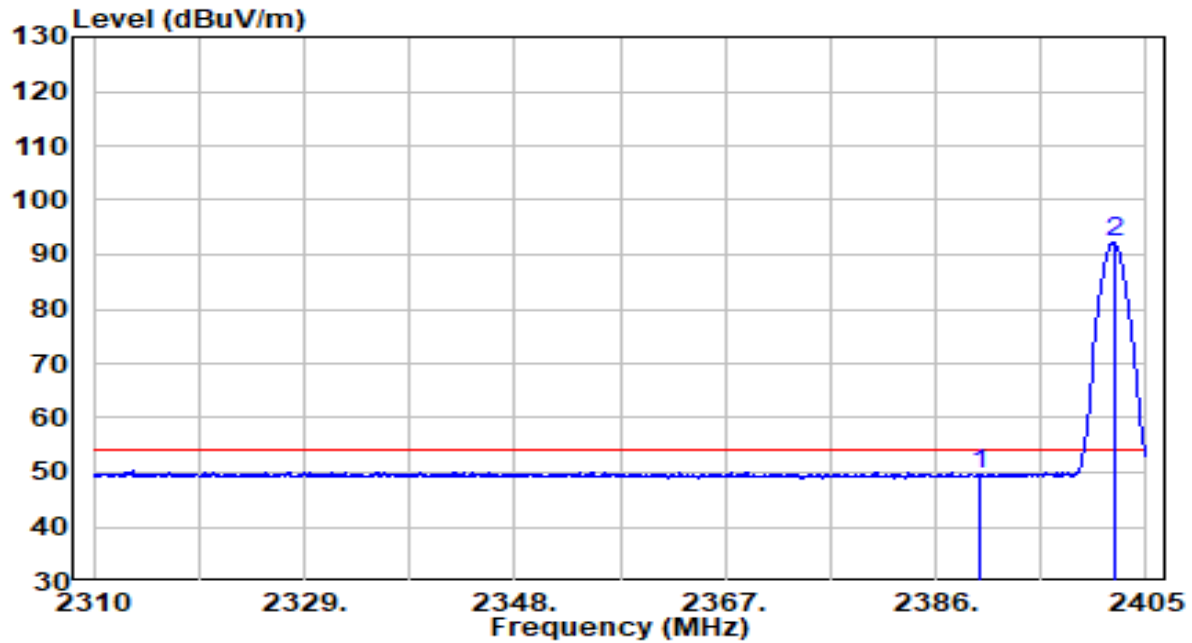


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2364.008	28.94	32.18	61.12	-12.88	74.00	Peak
2	2390.000	25.67	32.30	57.97	-16.03	74.00	Peak
3	* 2401.627	61.13	32.35	93.48	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2402MHz	Test Voltage	120V/60Hz

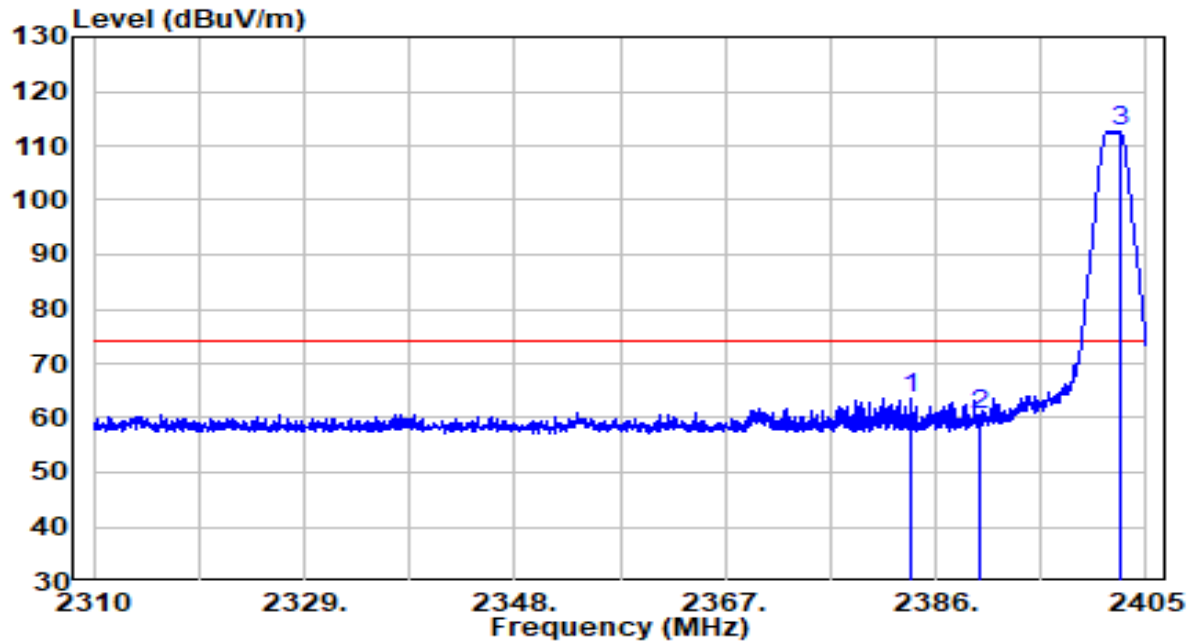


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	17.16	32.30	49.46	-4.54	54.00	Average
2	* 2402.103	59.82	32.35	92.17	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2402MHz	Test Voltage	120V/60Hz

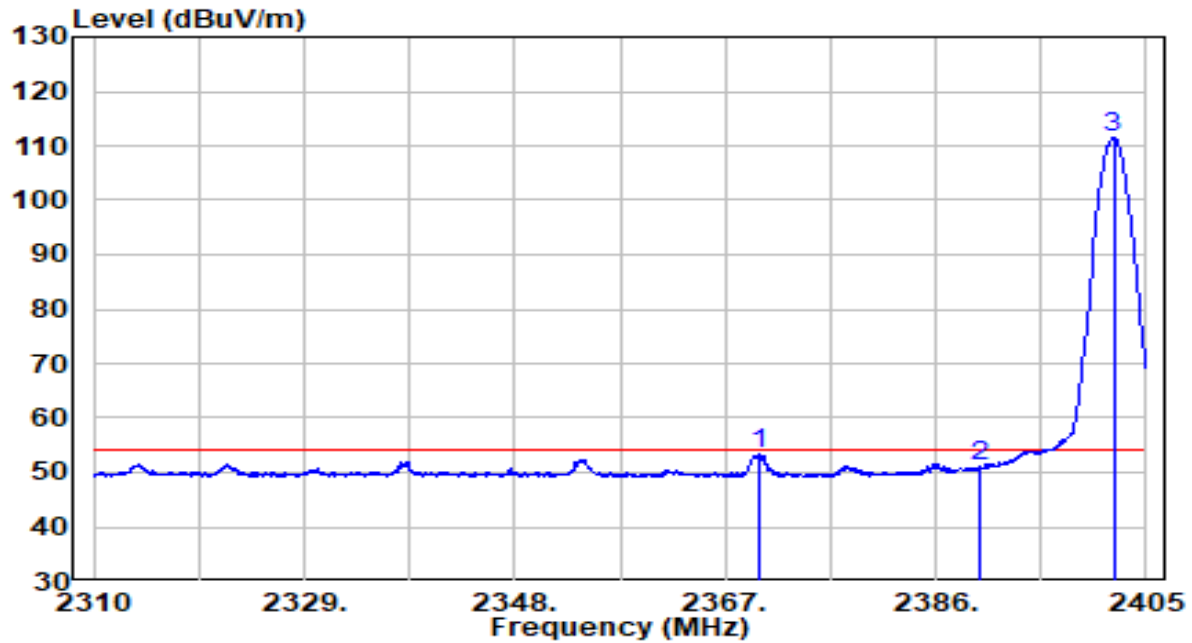


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2383.815	31.39	32.27	63.66	-10.34	74.00	Peak
2	2390.000	28.42	32.30	60.71	-13.29	74.00	Peak
3	* 2402.577	80.24	32.35	112.59	N/A	N/A	Peak

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2402MHz	Test Voltage	120V/60Hz

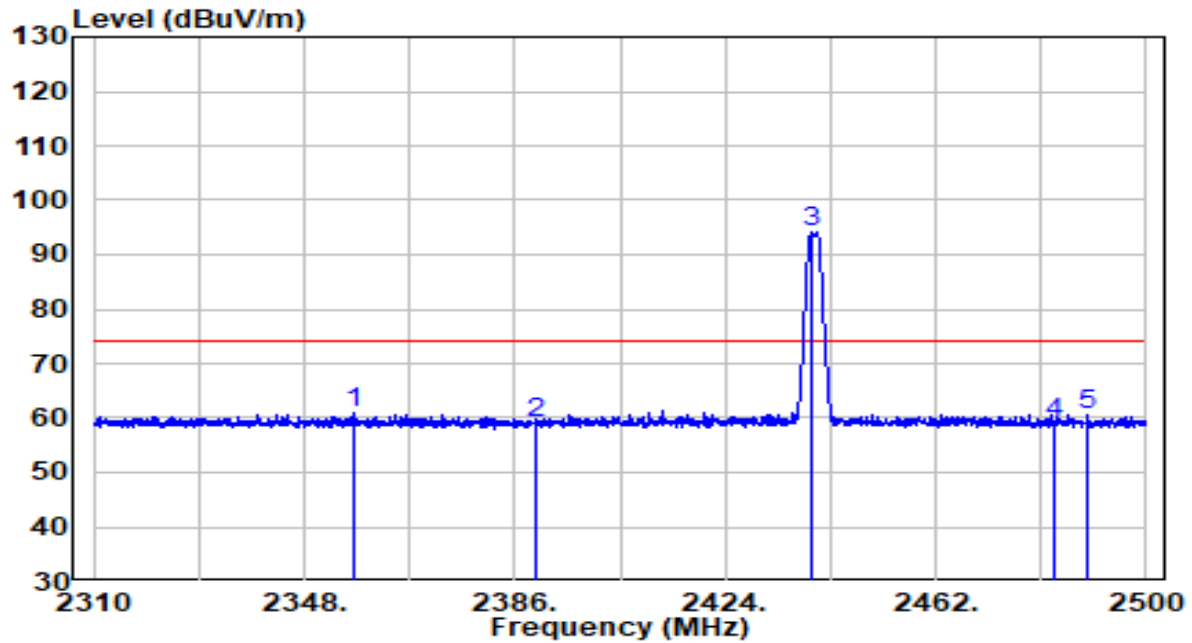


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2369.992	21.26	32.21	53.47	-0.53	54.00	Average
2	2390.000	18.75	32.30	51.04	-2.96	54.00	Average
3	* 2402.055	79.16	32.35	111.51	N/A	N/A	Average

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2440MHz	Test Voltage	120V/60Hz

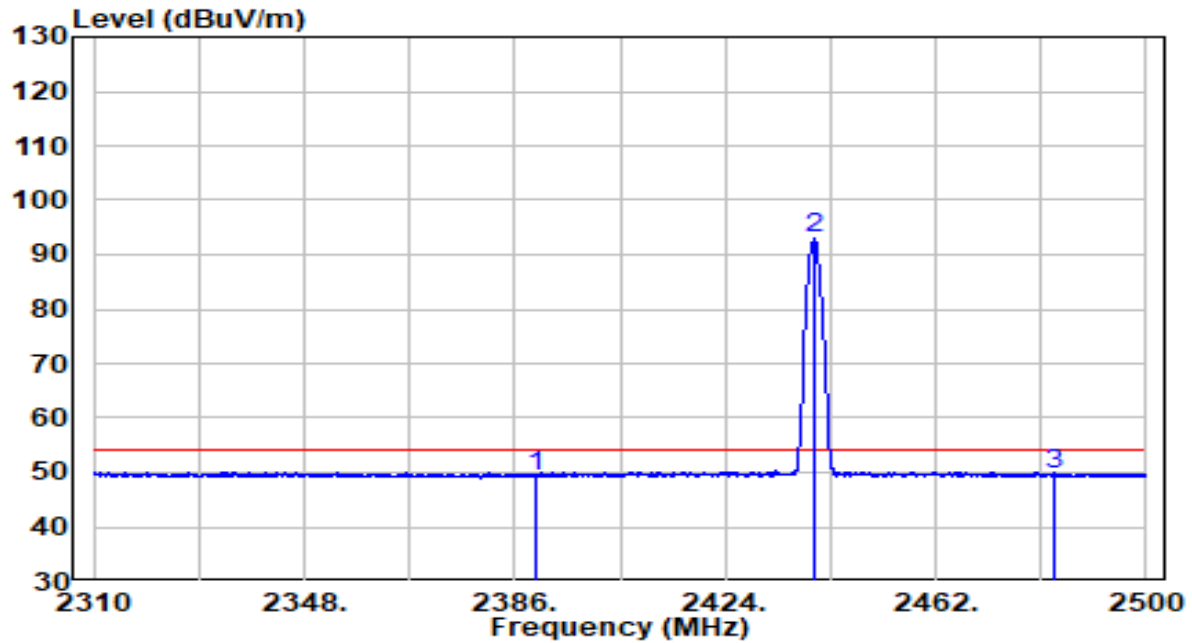


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2357.215	28.74	32.15	60.89	-13.11	74.00	Peak
2	2390.000	26.64	32.30	58.93	-15.07	74.00	Peak
3	* 2439.485	61.77	32.51	94.28	N/A	N/A	Peak
4	2483.500	26.33	32.71	59.04	-14.96	74.00	Peak
5	2489.455	27.86	32.73	60.59	-13.41	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2440MHz	Test Voltage	120V/60Hz

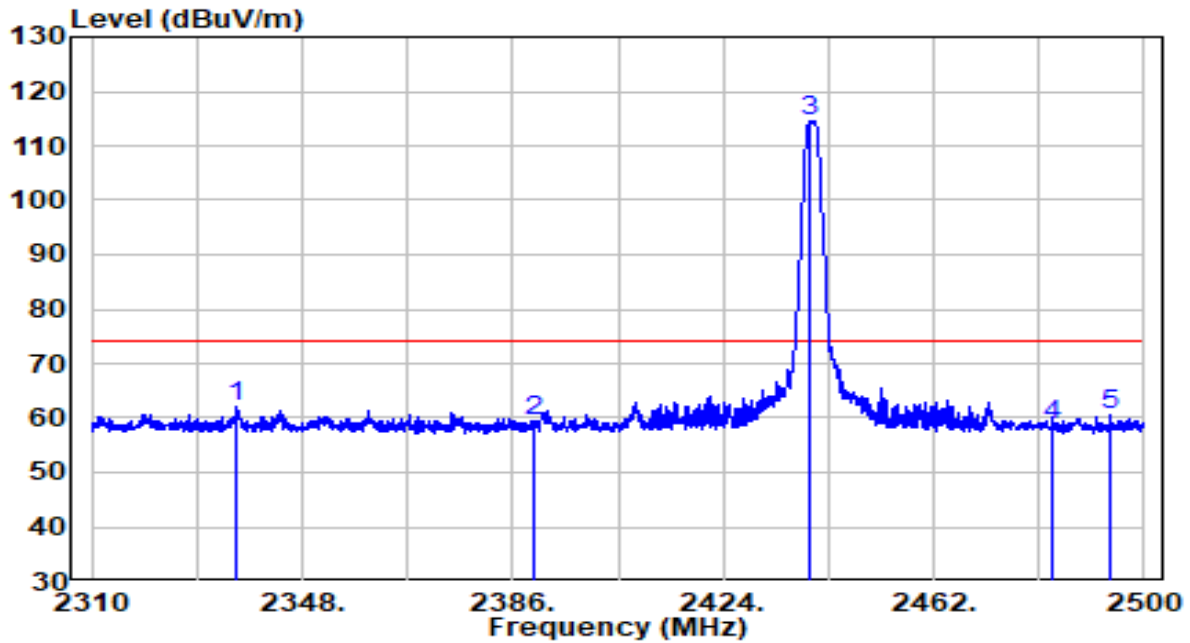


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	17.09	32.30	49.38	-4.62	54.00	Average
2	* 2440.150	60.48	32.52	93.00	N/A	N/A	Average
3	2483.500	16.77	32.71	49.48	-4.52	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2440MHz	Test Voltage	120V/60Hz

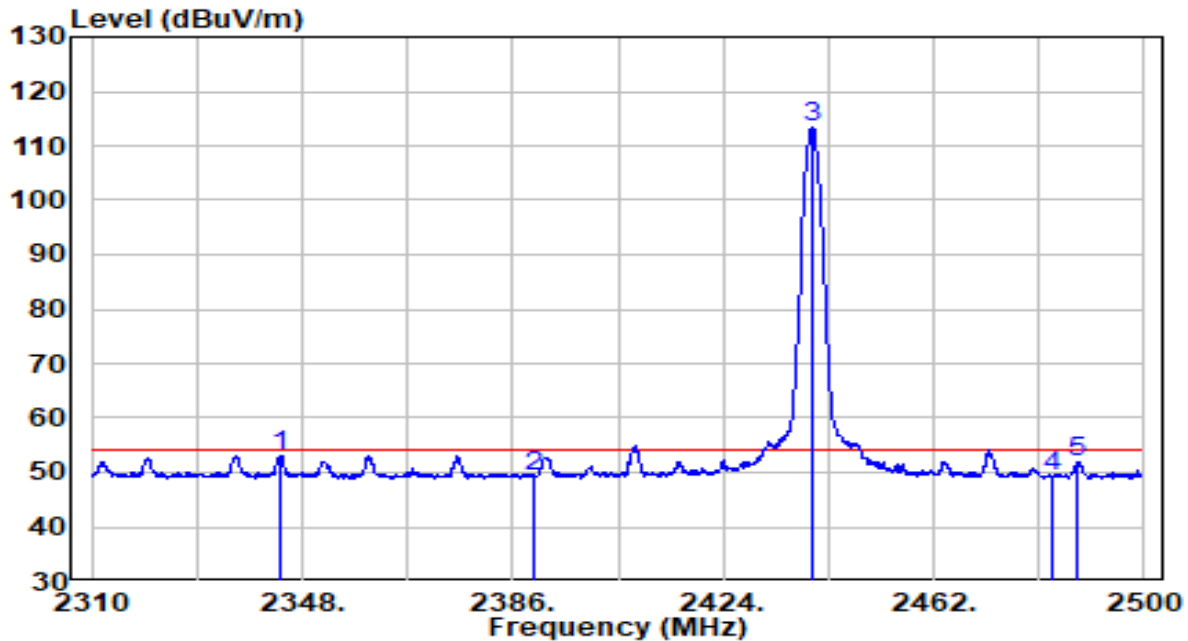


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2336.125	30.08	32.06	62.14	-11.86	74.00	Peak
2	2390.000	27.11	32.30	59.41	-14.59	74.00	Peak
3	* 2439.580	81.89	32.51	114.40	N/A	N/A	Peak
4	2483.500	26.06	32.71	58.77	-15.23	74.00	Peak
5	2493.920	27.81	32.75	60.56	-13.44	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2440MHz	Test Voltage	120V/60Hz

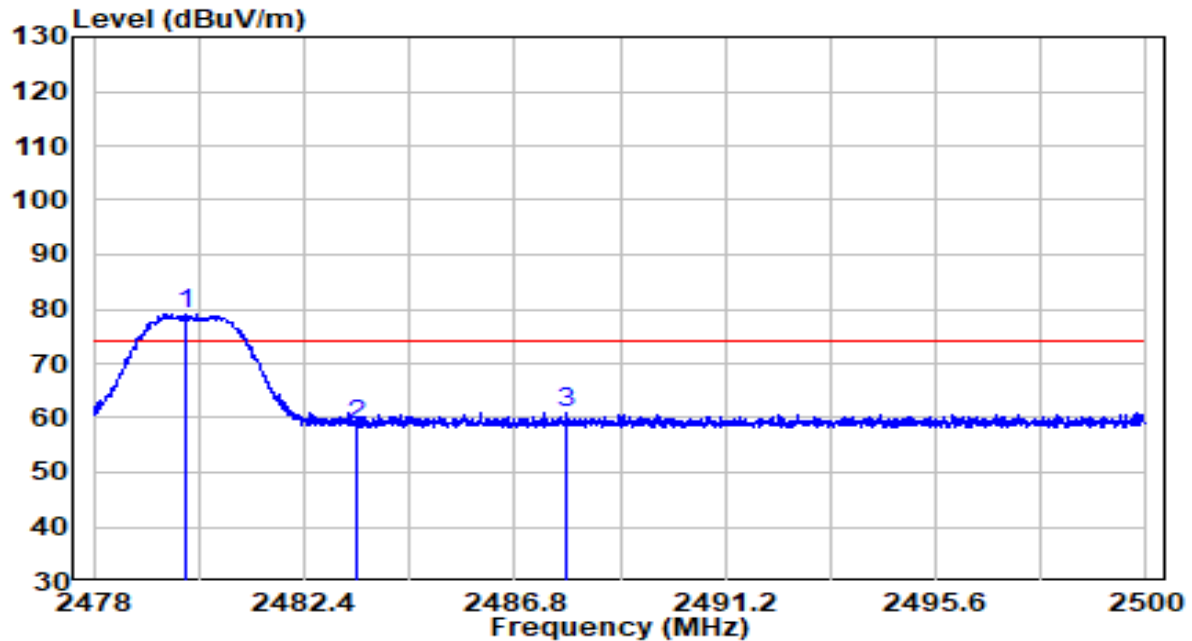


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2343.915	21.02	32.09	53.11	-0.89	54.00	Average
2	2390.000	16.92	32.30	49.22	-4.78	54.00	Average
3	* 2440.055	80.80	32.52	113.32	N/A	N/A	Average
4	2483.500	16.69	32.71	49.40	-4.60	54.00	Average
5	2487.935	19.34	32.73	52.06	-1.94	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2480MHz	Test Voltage	120V/60Hz

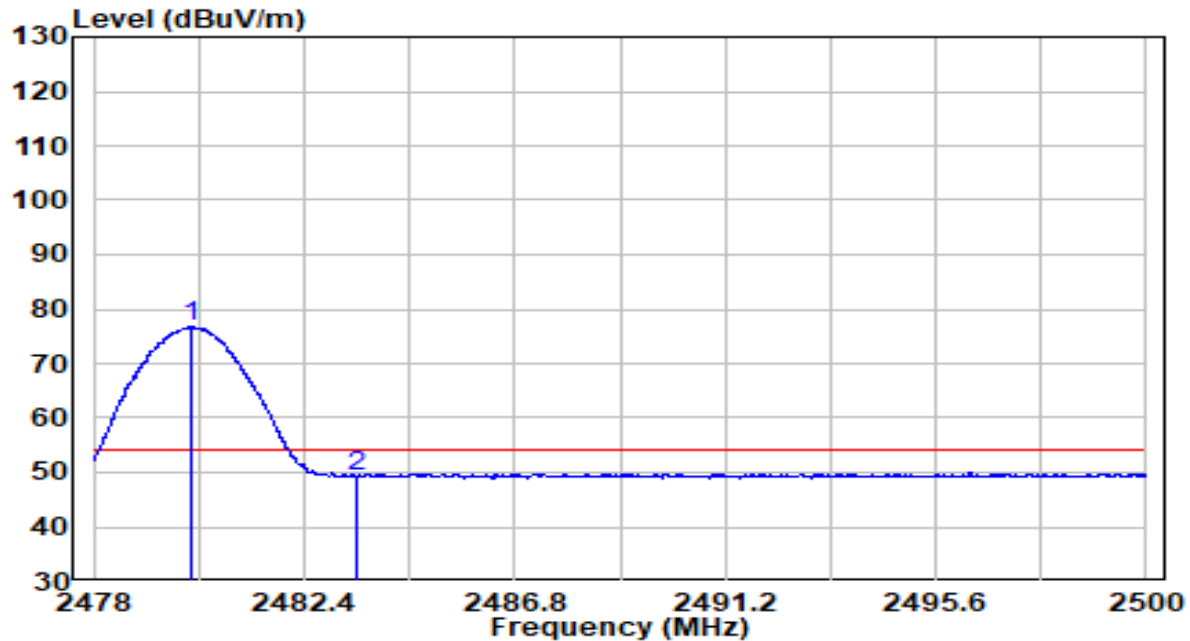


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.936	46.33	32.69	79.03	N/A	N/A	Peak
2		2483.500	26.04	32.71	58.75	-15.25	74.00	Peak
3		2487.900	28.40	32.73	61.13	-12.87	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2480MHz	Test Voltage	120V/60Hz

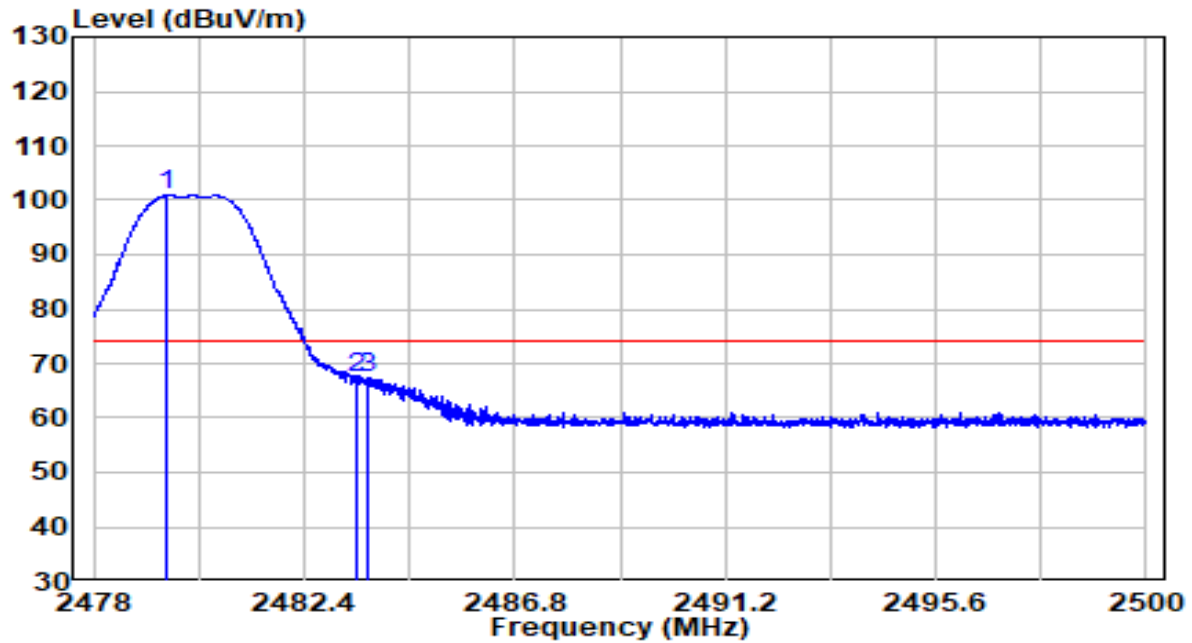


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.057	43.96	32.69	76.65	N/A	N/A	Average
2		2483.500	16.43	32.71	49.14	-4.86	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2480MHz	Test Voltage	120V/60Hz

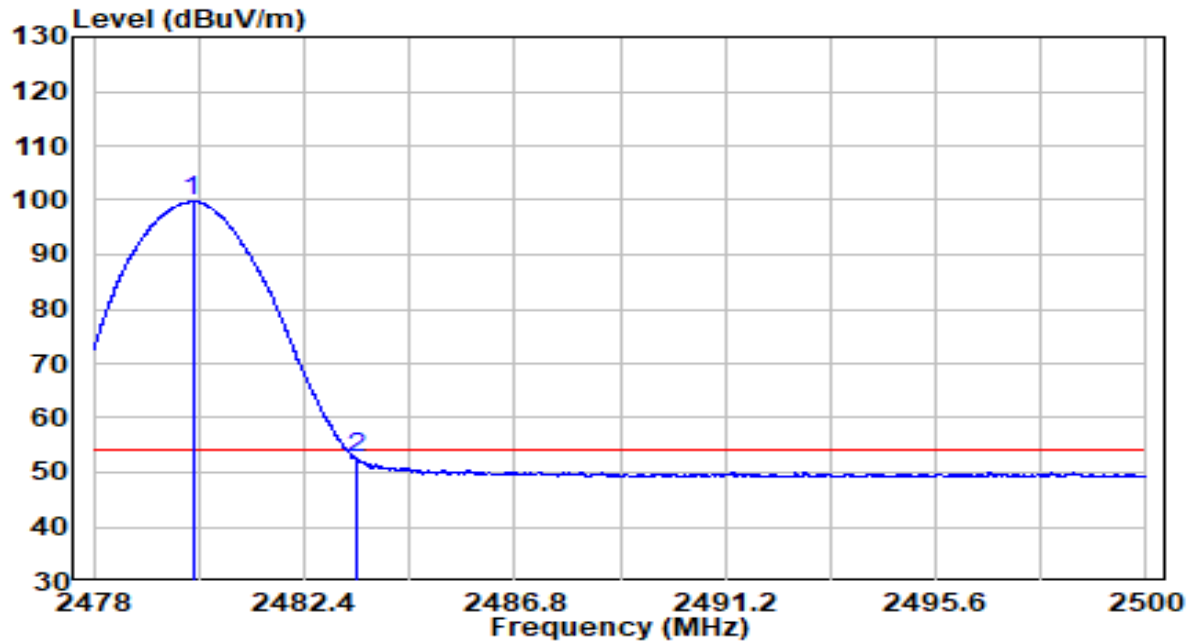


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2479.529	68.24	32.69	100.93	N/A	N/A	Peak
2		2483.500	34.54	32.71	67.25	-6.75	74.00	Peak
3		2483.742	34.84	32.71	67.54	-6.46	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-01
Factor	BBHA 9120D	Temp. / Humidity	22.2°C/44.8%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay Chou
Test Mode	Transmit by BLE 2M at Channel 2480MHz	Test Voltage	120V/60Hz



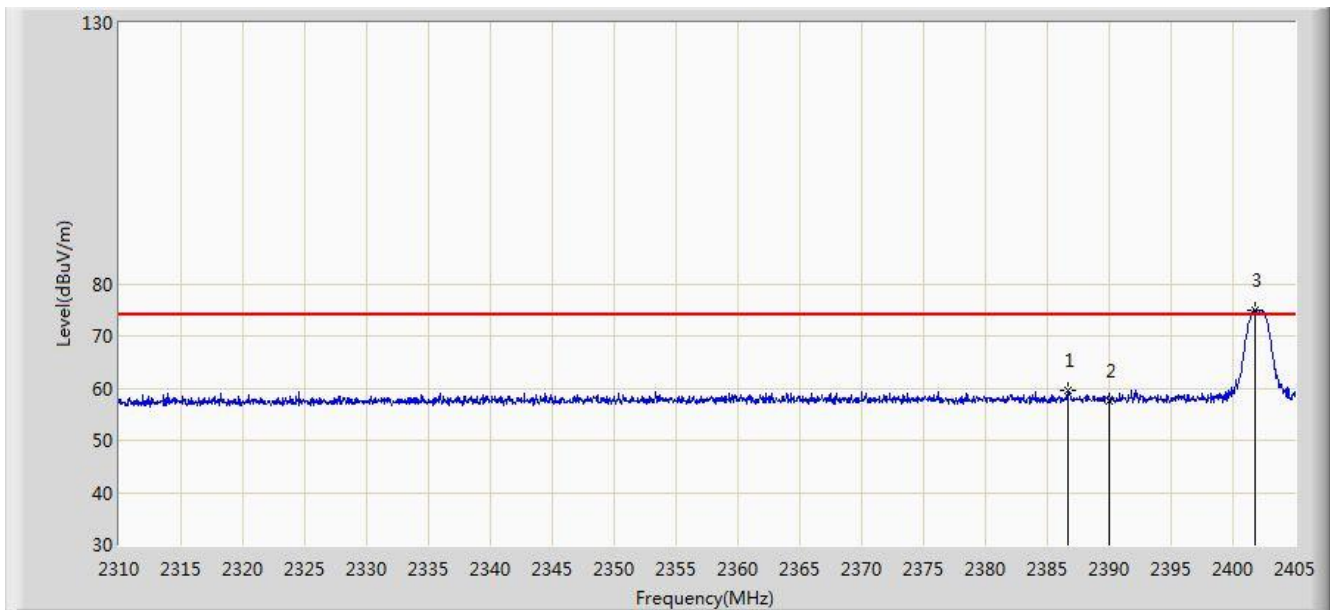
No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2480.068	67.03	32.69	99.72	N/A	N/A	Average
2		2483.500	19.81	32.71	52.51	-1.49	54.00	Average

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Bluetooth Chip 0 External Omni Antenna

Site: AC1	Time: 2021/06/06 - 13:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2402MHz	

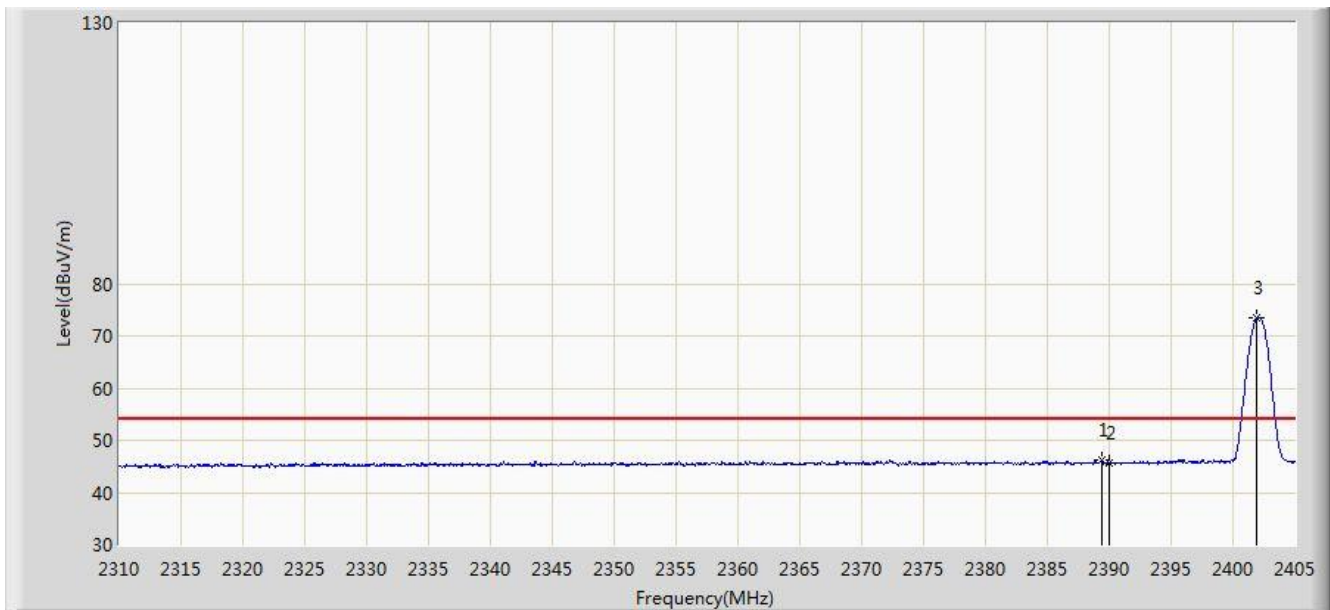


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.617	59.445	27.164	-14.555	74.000	32.281	PK
2			2390.000	57.483	25.187	-16.517	74.000	32.296	PK
3		*	2401.817	74.989	42.641	N/A	N/A	32.348	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2402MHz	

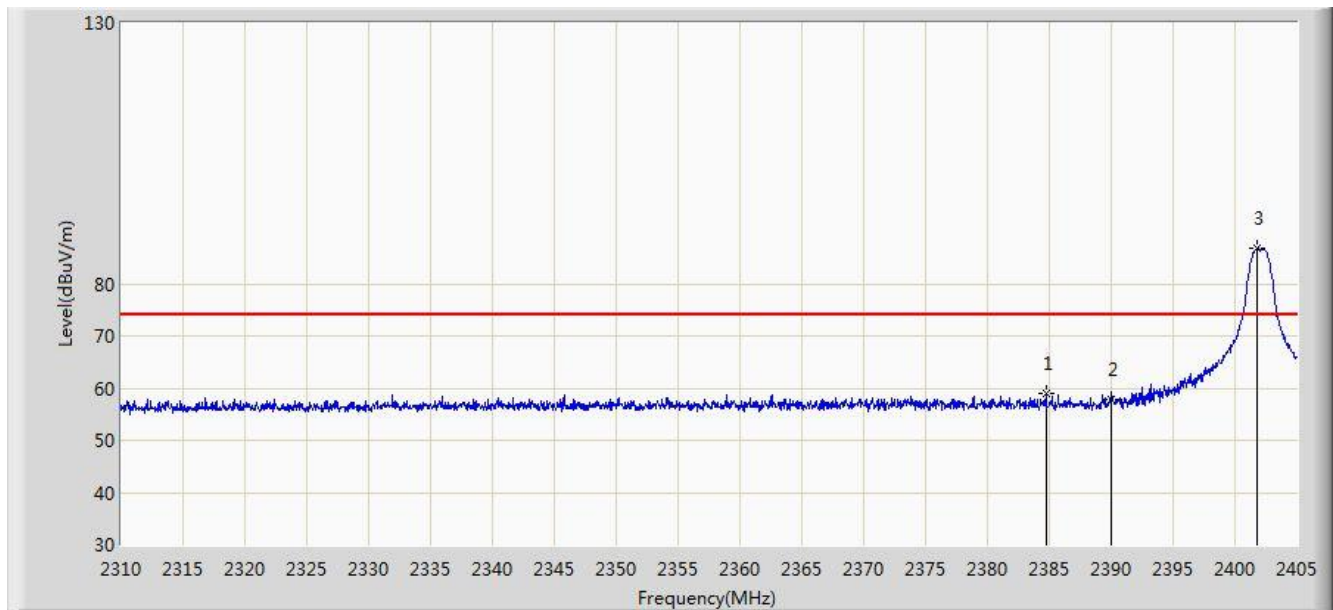


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.420	46.097	13.803	-7.903	54.000	32.293	AV
2			2390.000	45.692	13.396	-8.308	54.000	32.296	AV
3		*	2401.960	73.429	41.080	N/A	N/A	32.348	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2402MHz	

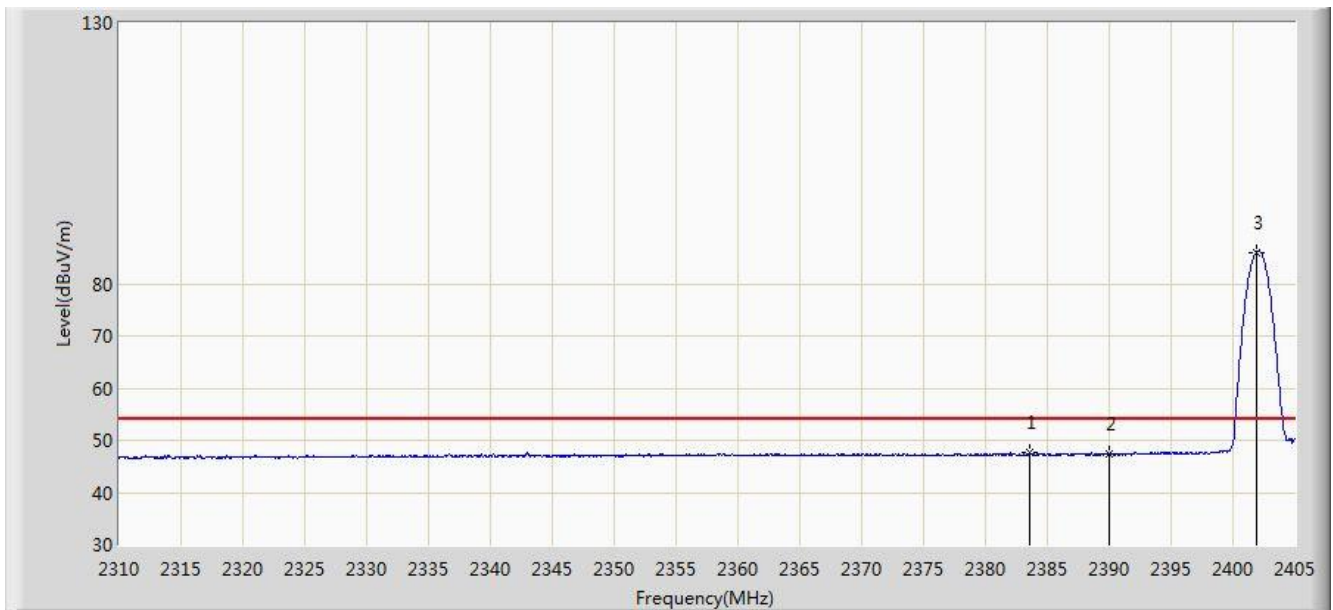


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.718	58.959	26.686	-15.041	74.000	32.273	PK
2			2390.000	57.907	25.611	-16.093	74.000	32.296	PK
3		*	2401.770	86.686	54.338	N/A	N/A	32.348	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2402MHz	

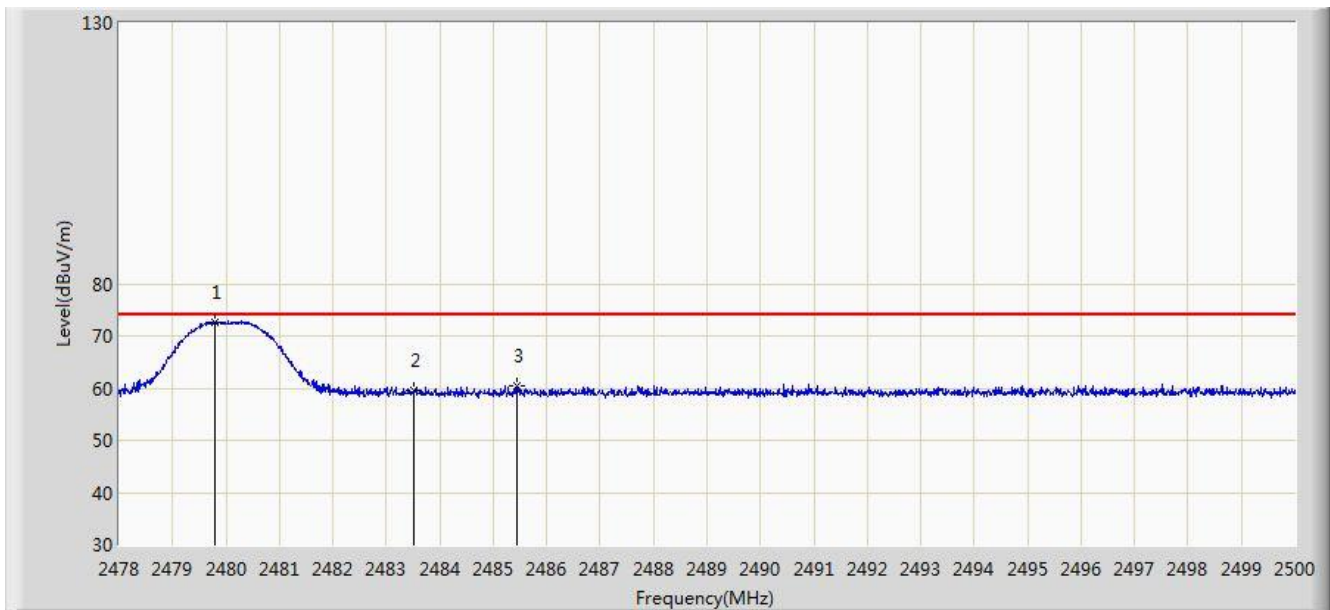


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.530	47.716	15.449	-6.284	54.000	32.267	AV
2			2390.000	47.369	15.073	-6.631	54.000	32.296	AV
3		*	2401.913	86.060	53.712	N/A	N/A	32.348	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2480MHz	

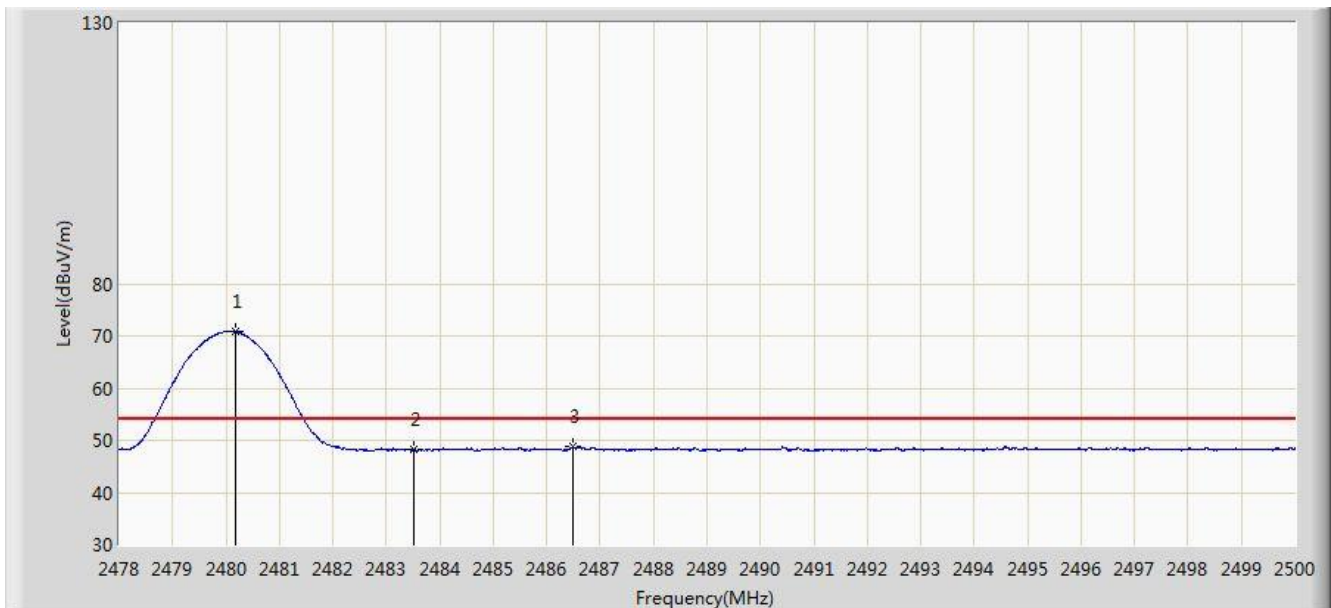


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.804	72.728	40.037	N/A	N/A	32.692	PK
2			2483.500	59.472	26.764	-14.528	74.000	32.707	PK
3			2485.436	60.536	27.820	-13.464	74.000	32.716	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2480MHz	

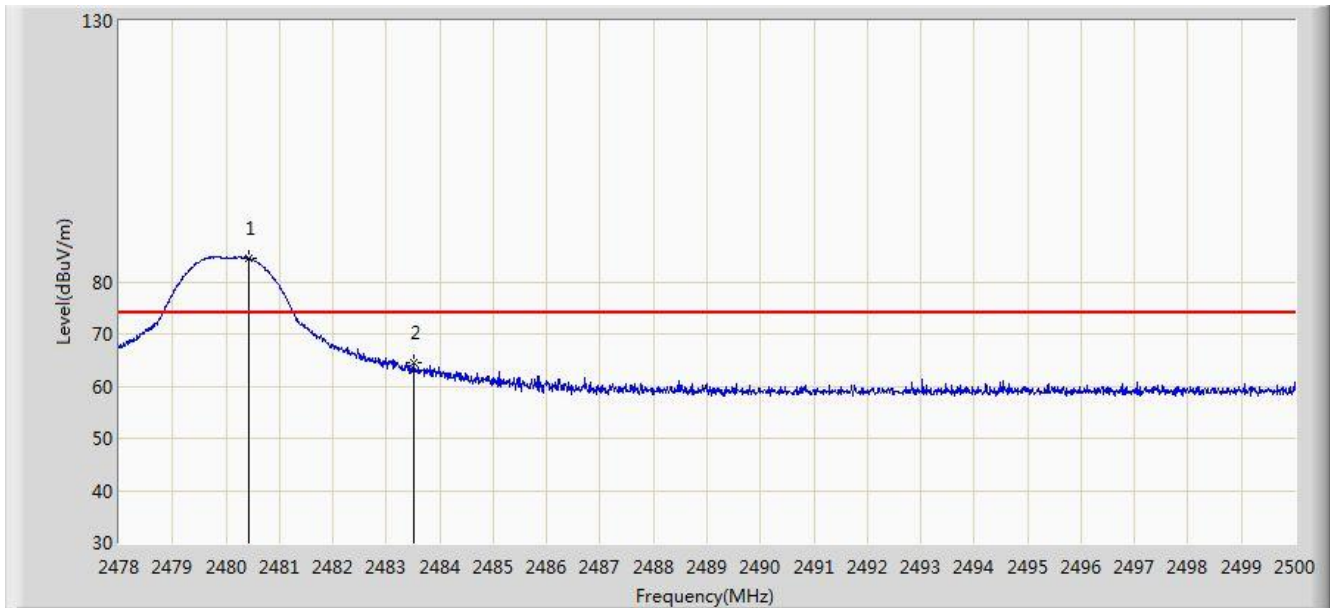


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.178	70.848	38.155	N/A	N/A	32.693	AV
2			2483.500	48.260	15.552	-5.740	54.000	32.707	AV
3			2486.503	48.749	16.028	-5.251	54.000	32.721	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2480MHz	

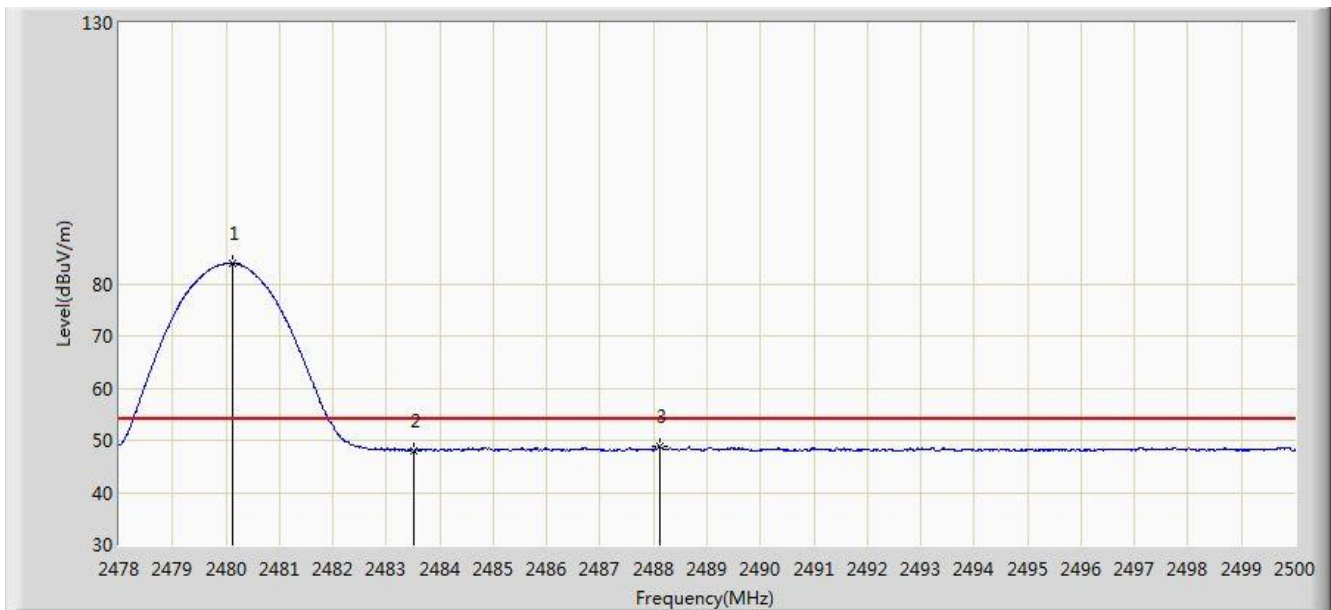


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.420	84.509	51.815	N/A	N/A	32.695	PK
2			2483.500	64.356	31.648	-9.644	74.000	32.707	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 1M at channel 2480MHz	

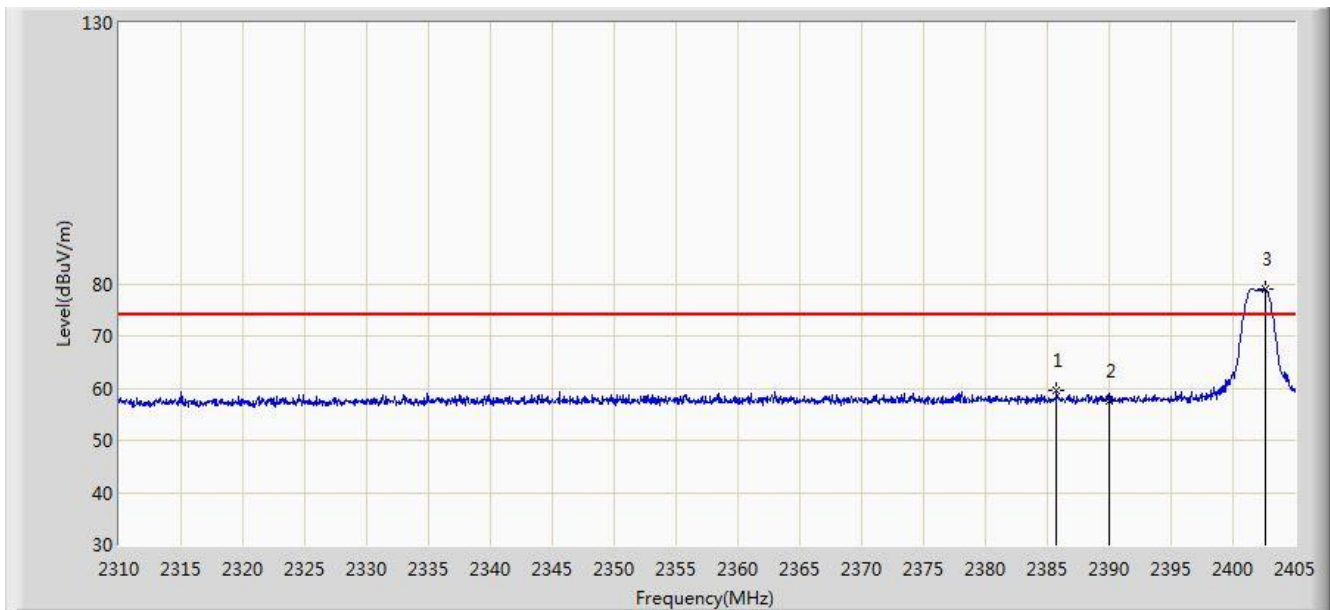


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2480.112	83.887	51.194	N/A	N/A	32.693	AV
2			2483.500	48.077	15.369	-5.923	54.000	32.707	AV
3		*	2488.131	48.861	16.133	-5.139	54.000	32.728	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2402MHz	

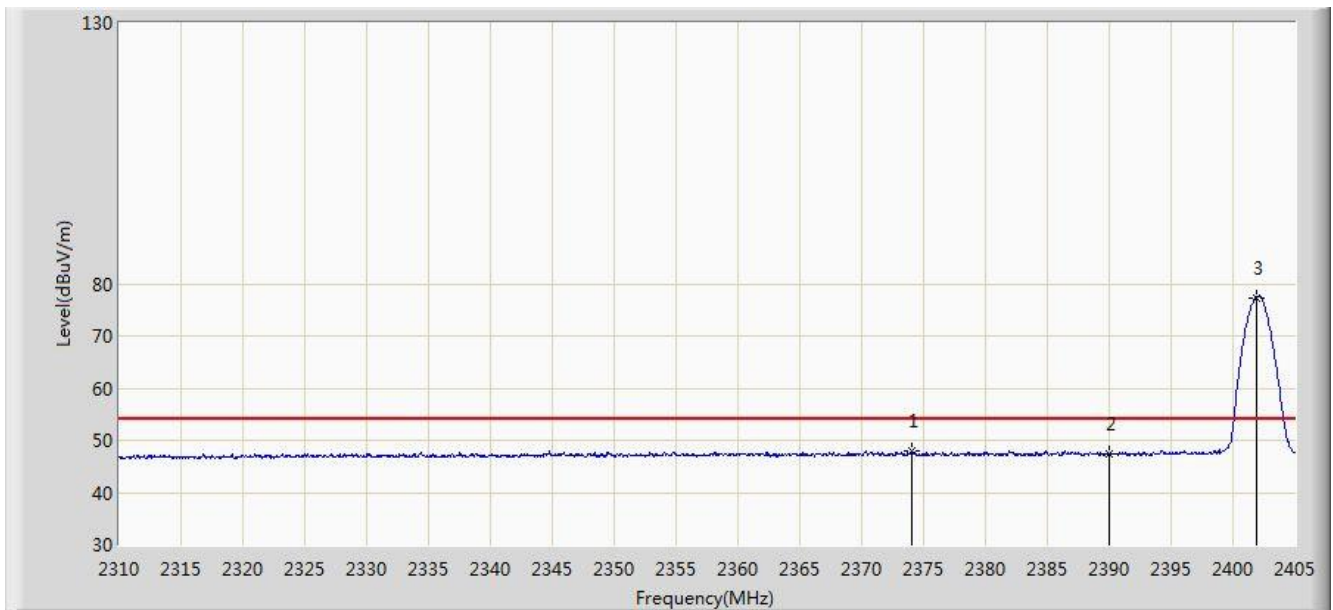


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.762	59.444	27.167	-14.556	74.000	32.277	PK
2			2390.000	57.550	25.254	-16.450	74.000	32.296	PK
3		*	2402.577	79.115	46.764	N/A	N/A	32.351	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2402MHz	

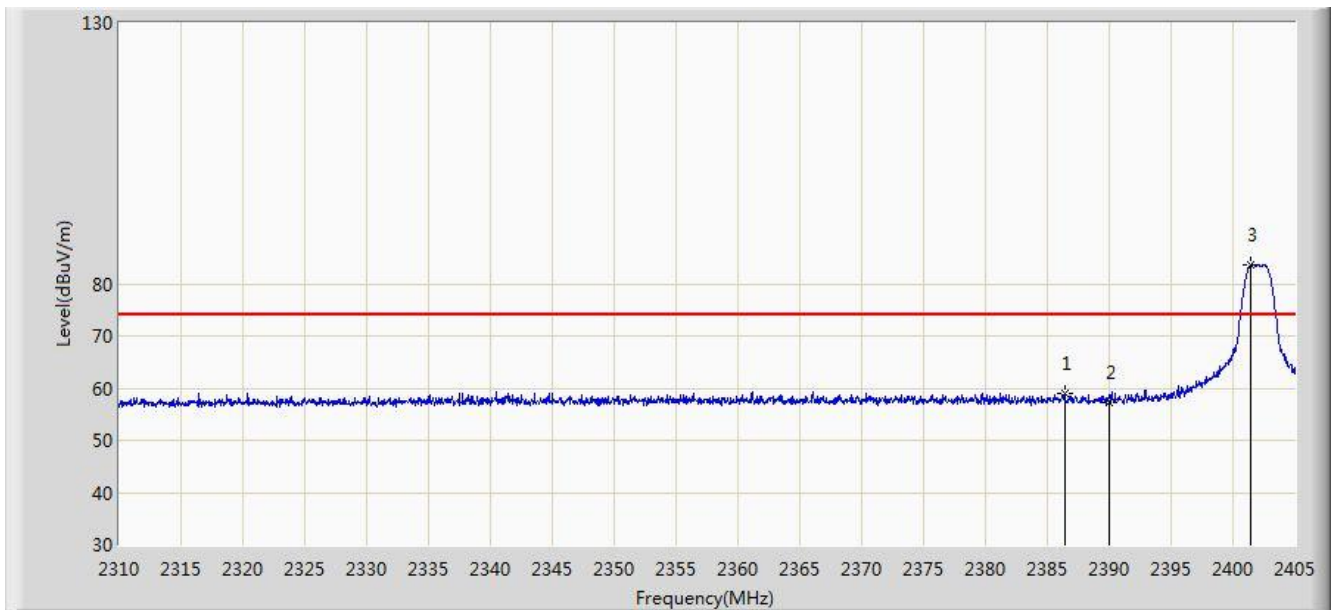


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2374.077	47.890	15.665	-6.110	54.000	32.226	AV
2			2390.000	47.370	15.074	-6.630	54.000	32.296	AV
3		*	2401.865	77.385	45.037	N/A	N/A	32.348	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2402MHz	

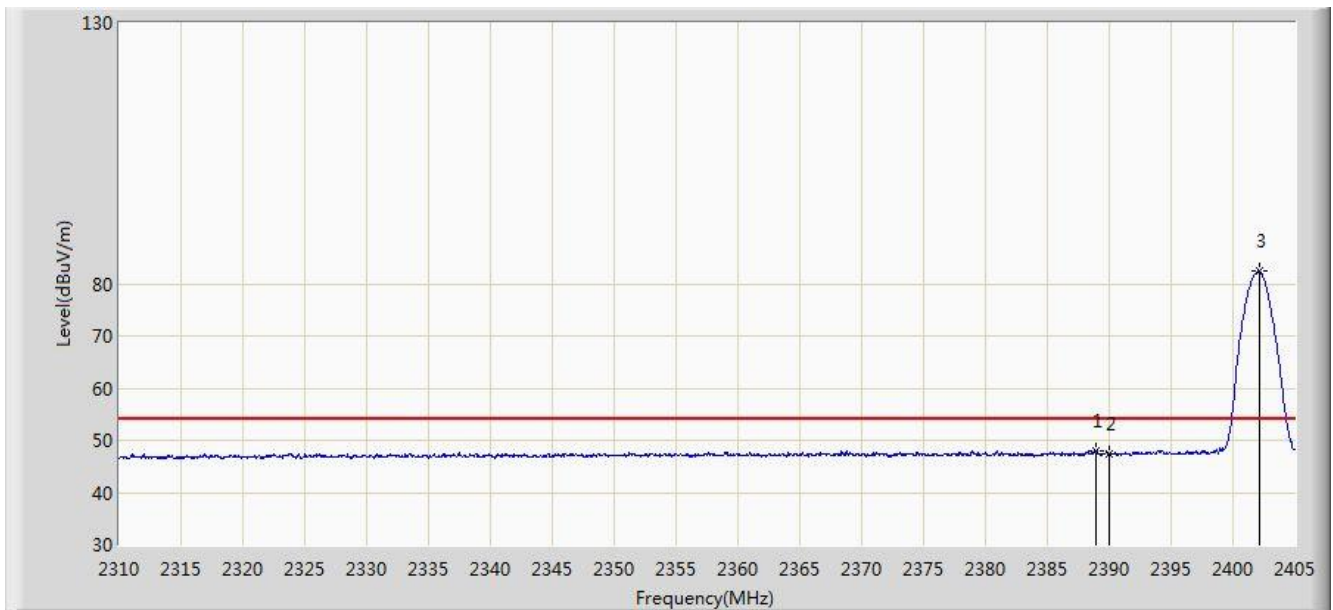


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.427	58.972	26.692	-15.028	74.000	32.280	PK
2			2390.000	57.315	25.019	-16.685	74.000	32.296	PK
3		*	2401.437	83.718	51.372	N/A	N/A	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2402MHz	

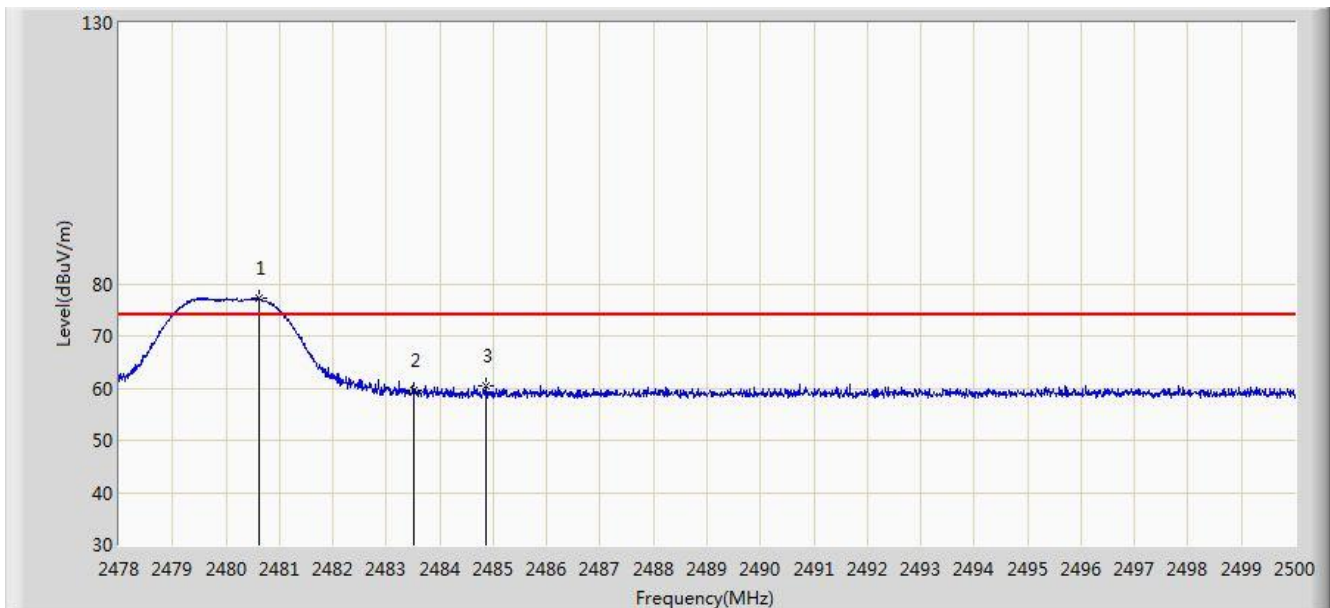


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.945	48.062	15.771	-5.938	54.000	32.292	AV
2			2390.000	47.378	15.082	-6.622	54.000	32.296	AV
3		*	2402.150	82.340	49.991	N/A	N/A	32.349	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2480MHz	

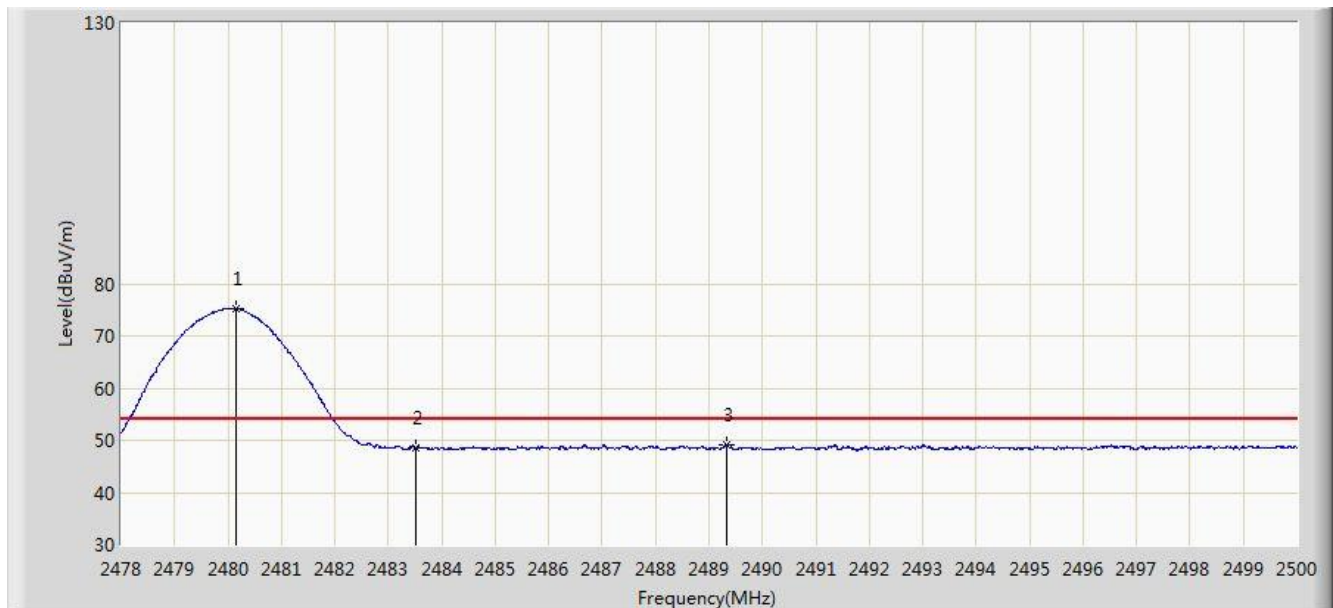


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.629	77.229	44.534	N/A	N/A	32.695	PK
2			2483.500	59.619	26.911	-14.381	74.000	32.707	PK
3			2484.853	60.563	27.849	-13.437	74.000	32.714	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2480MHz	

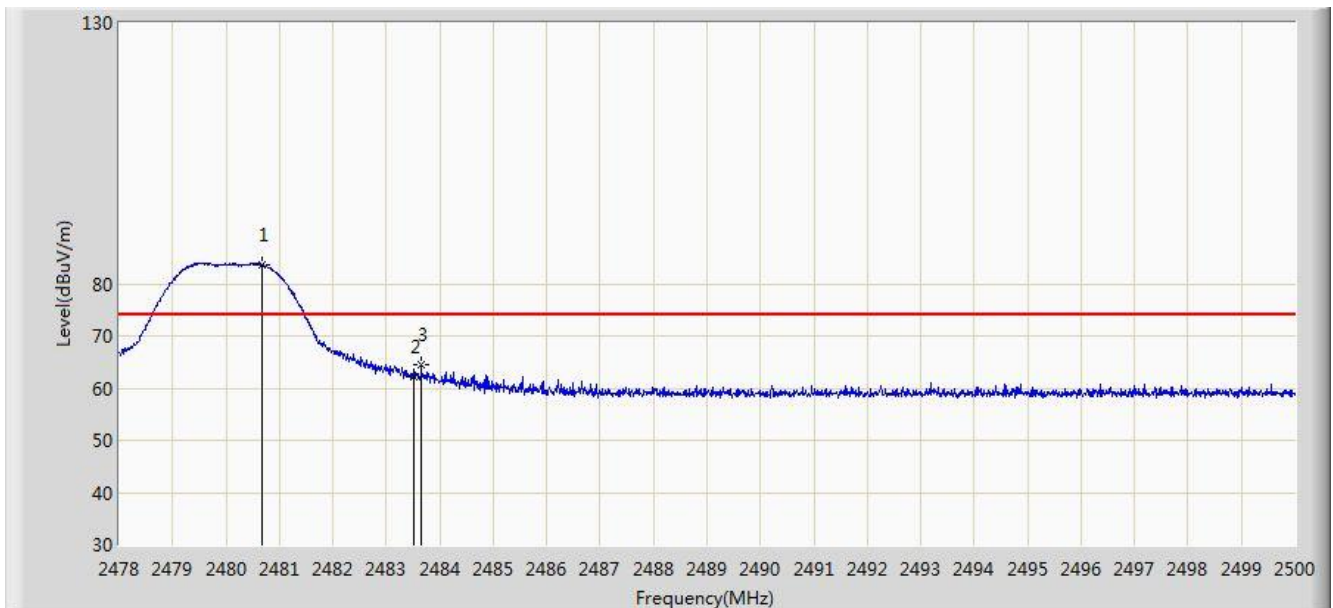


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.145	75.224	42.531	N/A	N/A	32.693	AV
2			2483.500	48.535	15.827	-5.465	54.000	32.707	AV
3			2489.341	49.239	16.506	-4.761	54.000	32.733	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 15:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2480MHz	

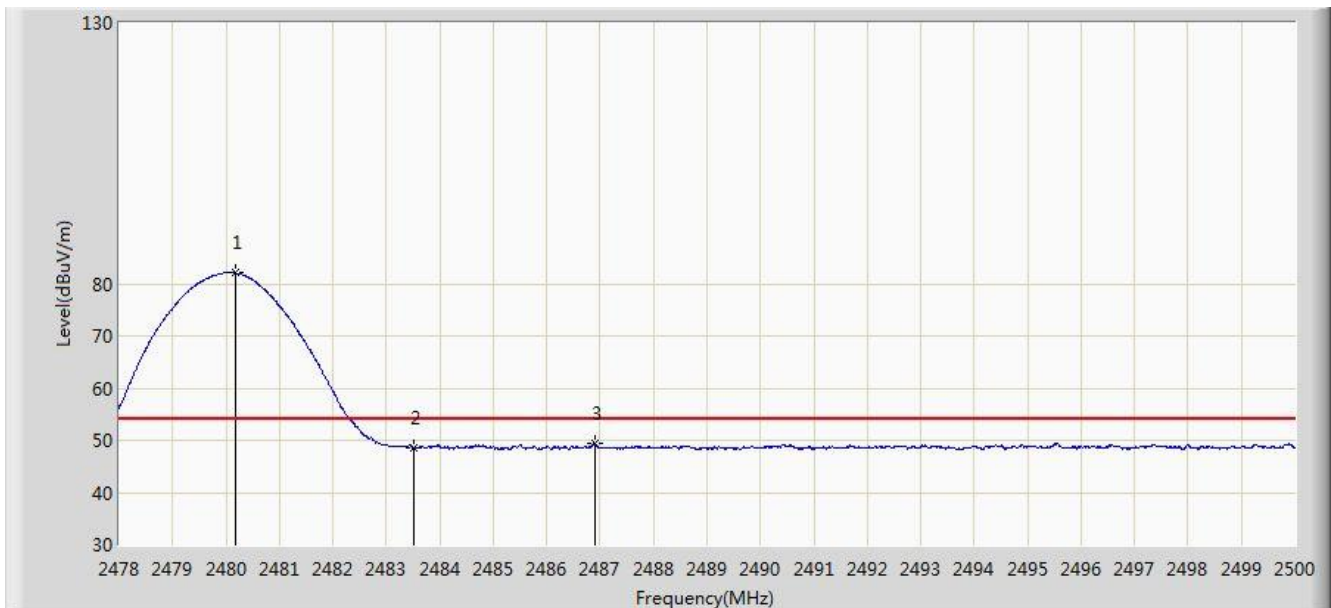


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.662	83.627	50.932	N/A	N/A	32.695	PK
2			2483.500	62.076	29.368	-11.924	74.000	32.707	PK
3			2483.654	64.438	31.730	-9.562	74.000	32.709	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 16:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 0 BLE 2M at channel 2480MHz	



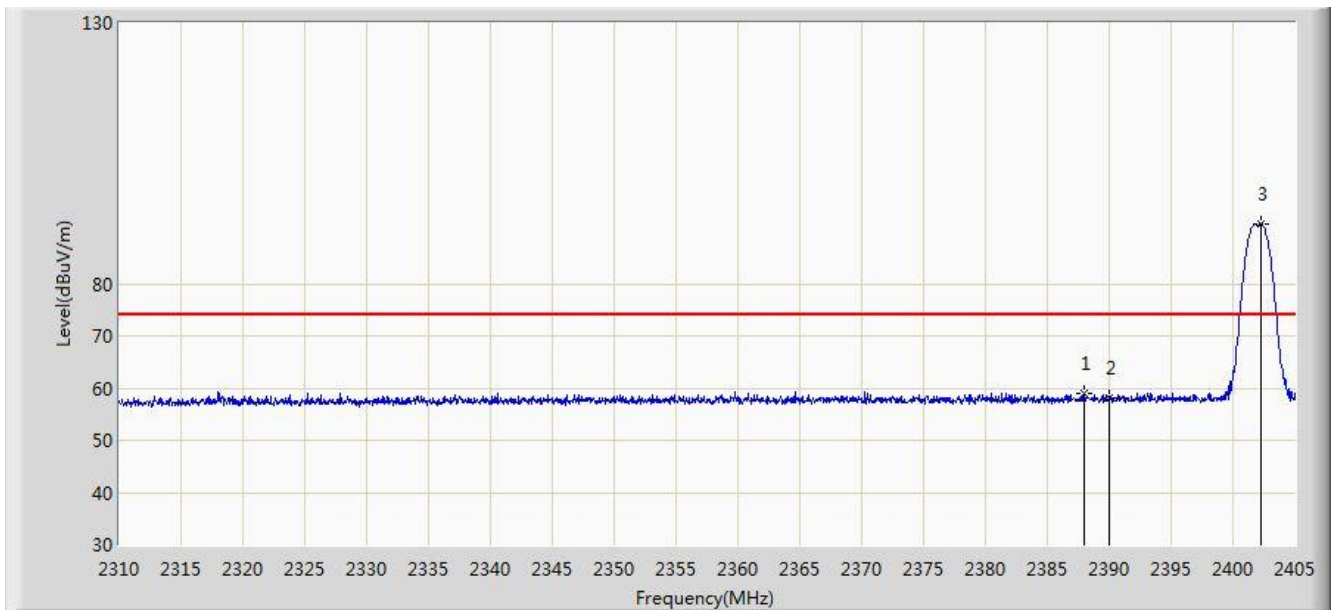
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.178	82.081	49.388	N/A	N/A	32.693	AV
2			2483.500	48.477	15.769	-5.523	54.000	32.707	AV
3			2486.899	49.291	16.569	-4.709	54.000	32.722	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Bluetooth Chip 1 External Omni Antenna

Site: AC1	Time: 2021/06/06 - 11:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2402MHz	

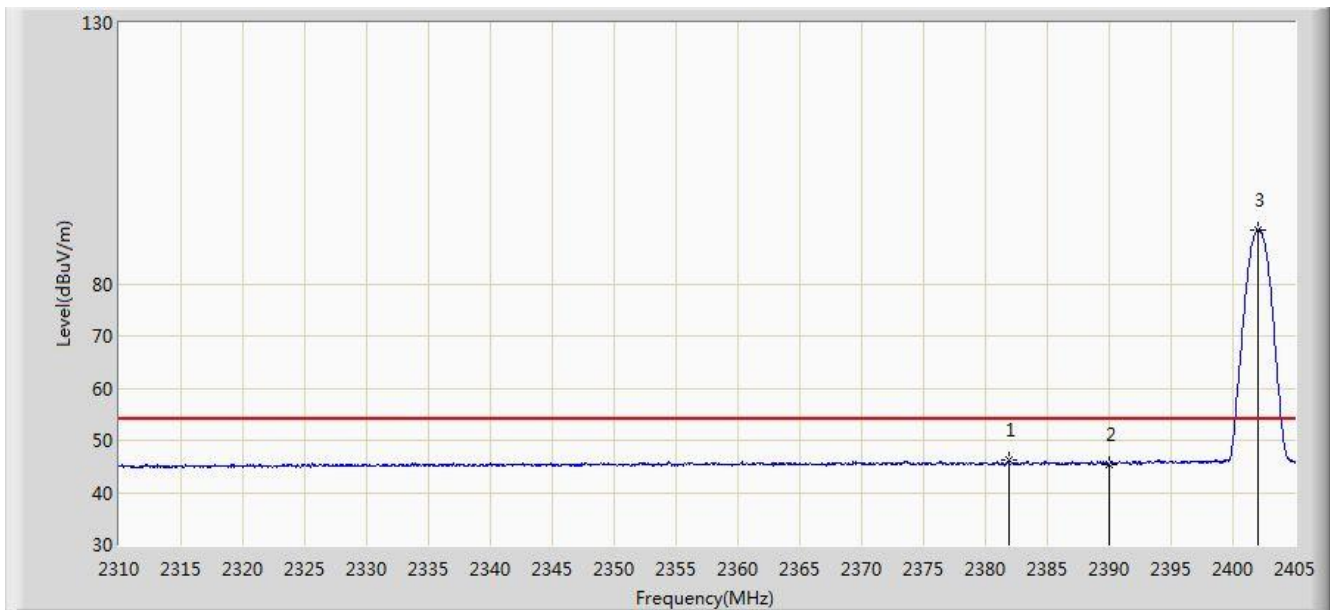


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.995	59.036	26.749	-14.964	74.000	32.288	PK
2			2390.000	58.255	25.959	-15.745	74.000	32.296	PK
3		*	2402.292	91.354	59.004	N/A	N/A	32.350	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2402MHz	

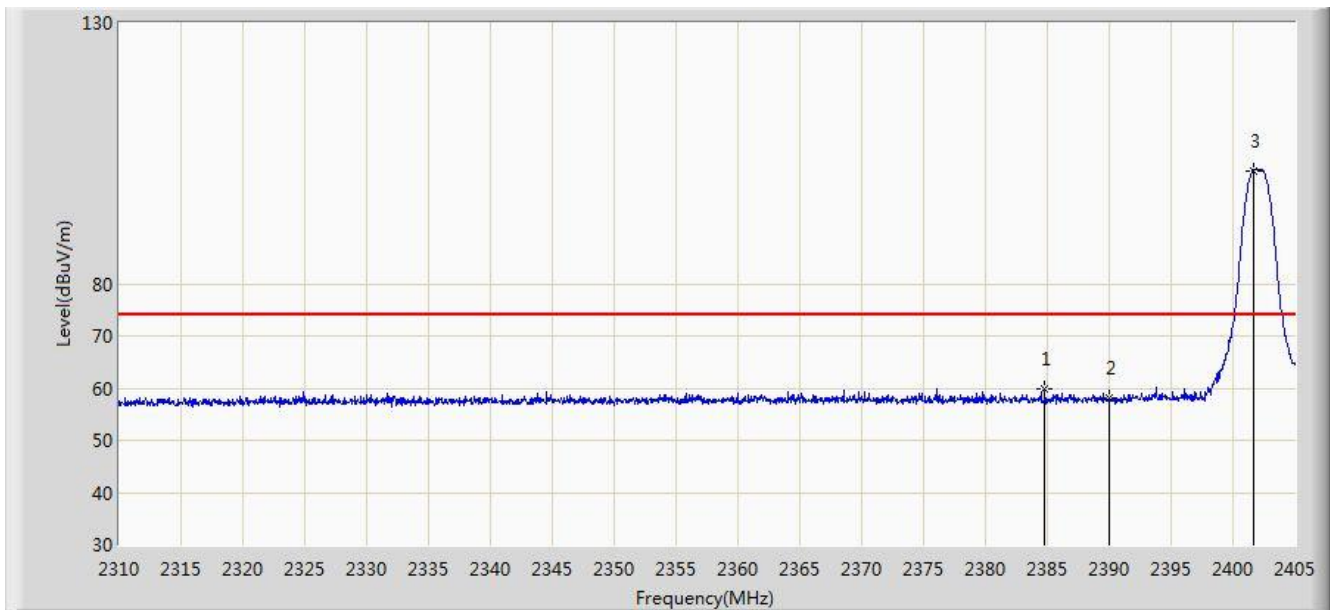


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2381.915	46.245	13.985	-7.755	54.000	32.260	AV
2			2390.000	45.455	13.159	-8.545	54.000	32.296	AV
3		*	2402.055	90.430	58.081	N/A	N/A	32.349	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2402MHz	

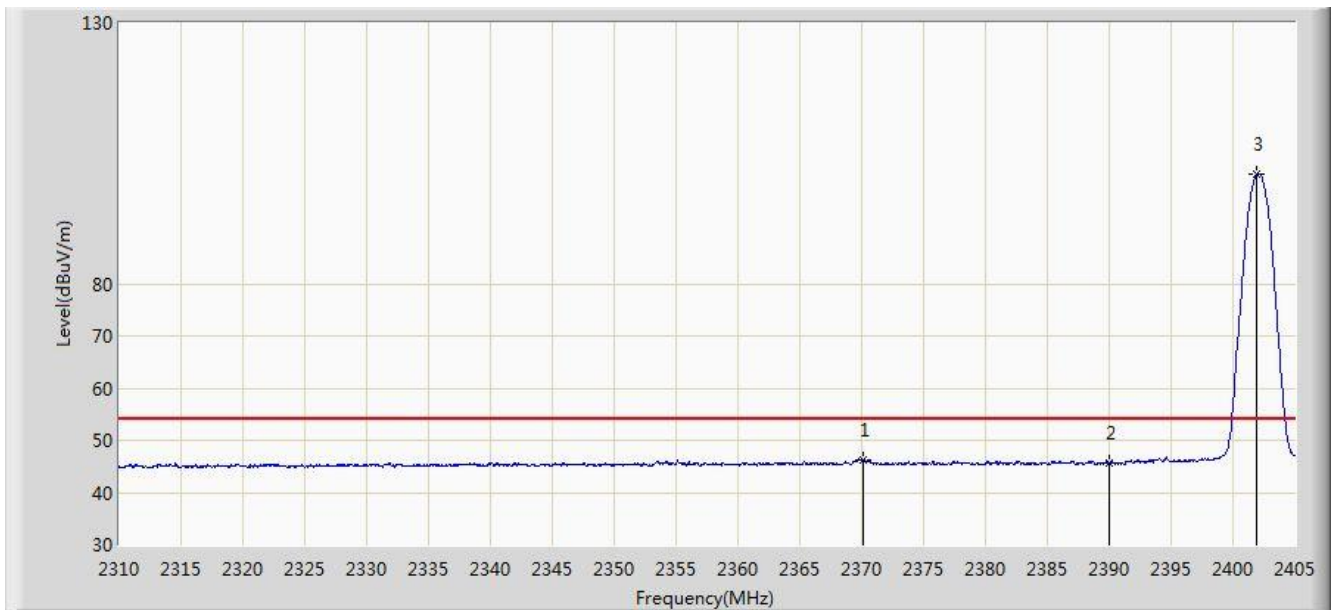


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.765	59.859	27.586	-14.141	74.000	32.273	PK
2			2390.000	58.045	25.749	-15.955	74.000	32.296	PK
3		*	2401.627	101.679	69.332	N/A	N/A	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2402MHz	

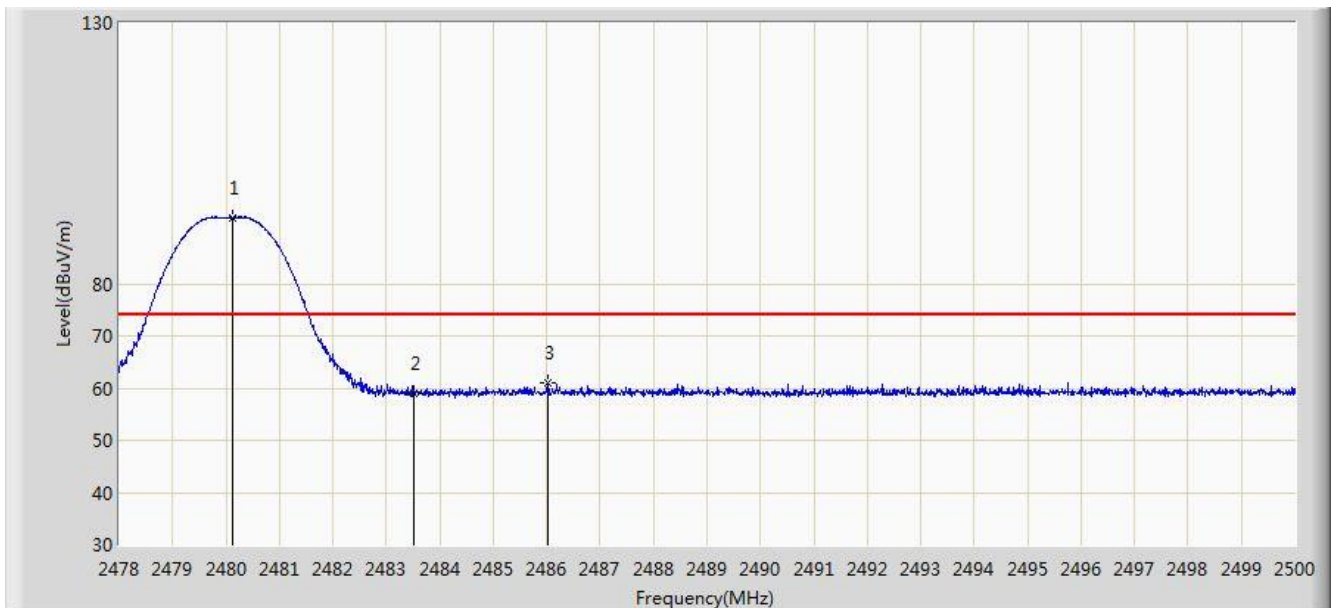


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2370.135	46.322	14.114	-7.678	54.000	32.208	AV
2			2390.000	45.559	13.263	-8.441	54.000	32.296	AV
3		*	2401.960	100.997	68.648	N/A	N/A	32.348	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2480MHz	

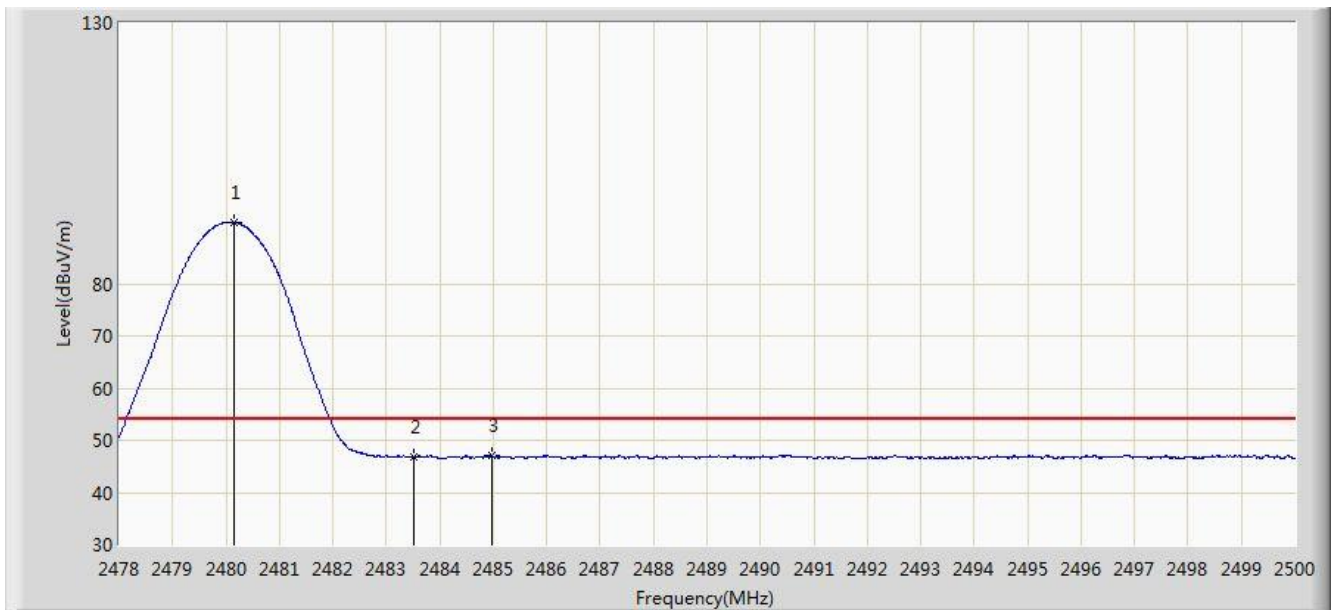


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.112	92.690	59.997	N/A	N/A	32.693	PK
2			2483.500	58.951	26.243	-15.049	74.000	32.707	PK
3			2486.019	60.934	28.215	-13.066	74.000	32.718	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2480MHz	

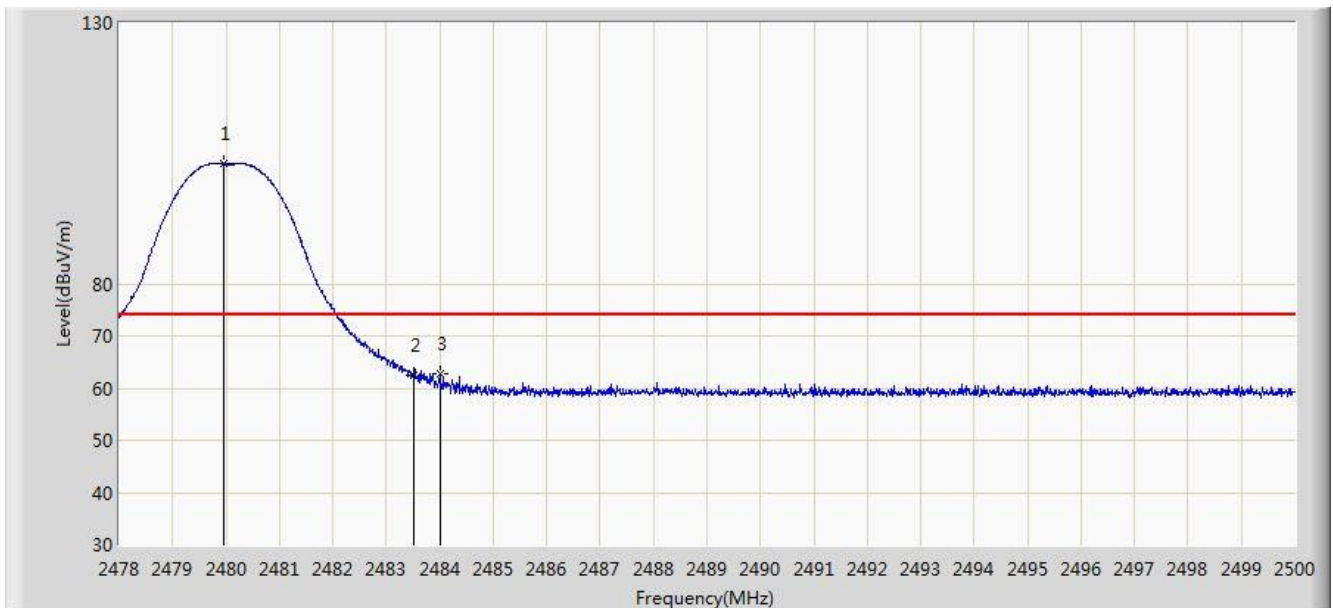


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.145	91.766	59.073	N/A	N/A	32.692	AV
2			2483.500	46.770	14.062	-7.230	54.000	32.707	AV
3			2484.963	47.108	14.394	-6.892	54.000	32.714	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2480MHz	

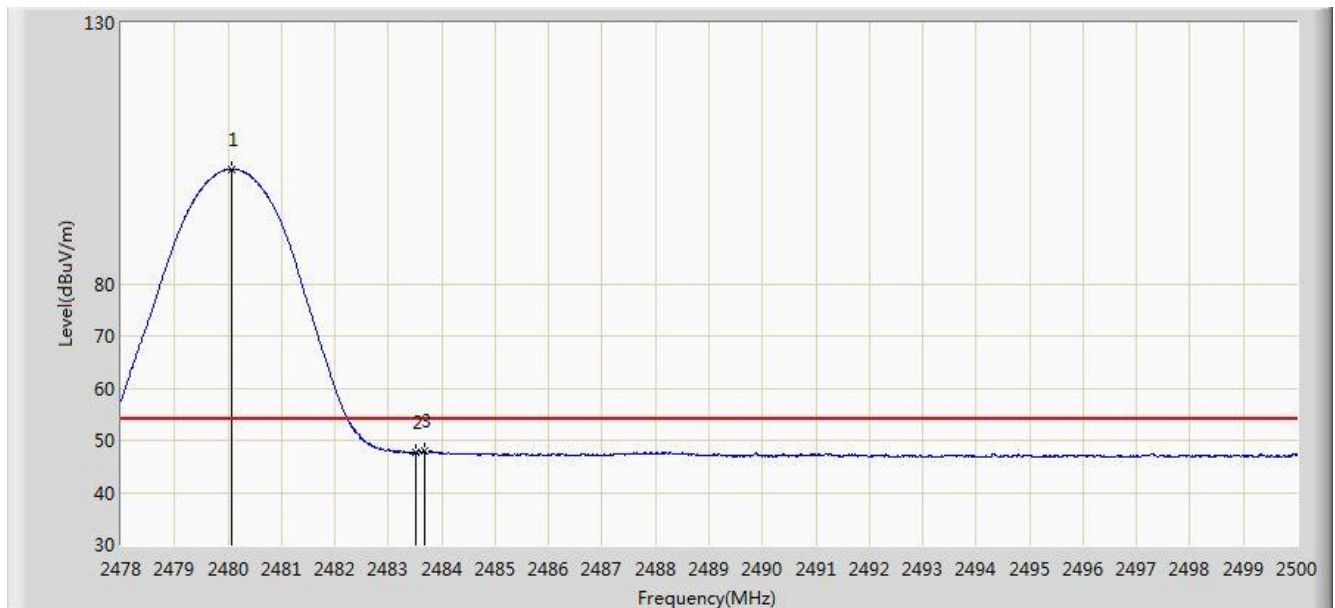


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.969	102.937	70.245	N/A	N/A	32.692	PK
2			2483.500	62.597	29.889	-11.403	74.000	32.707	PK
3			2484.006	62.776	30.066	-11.224	74.000	32.710	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 1M at channel 2480MHz	

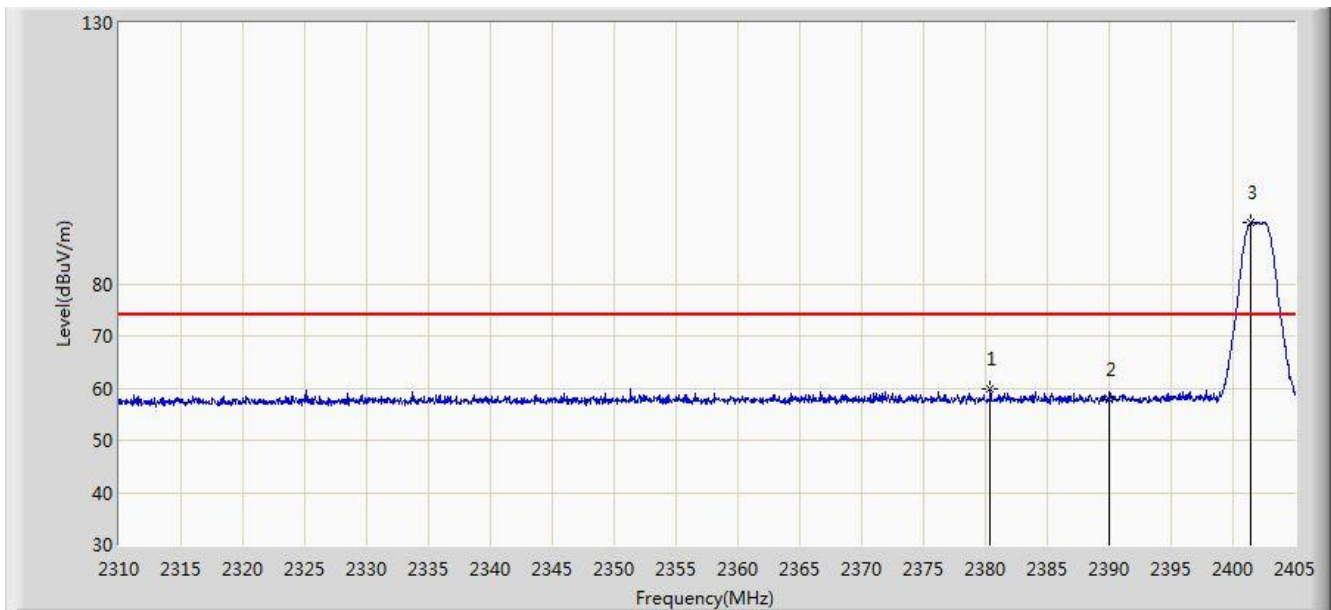


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.079	101.948	69.255	N/A	N/A	32.692	AV
2			2483.500	47.609	14.901	-6.391	54.000	32.707	AV
3			2483.687	47.853	15.145	-6.147	54.000	32.709	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2402MHz	

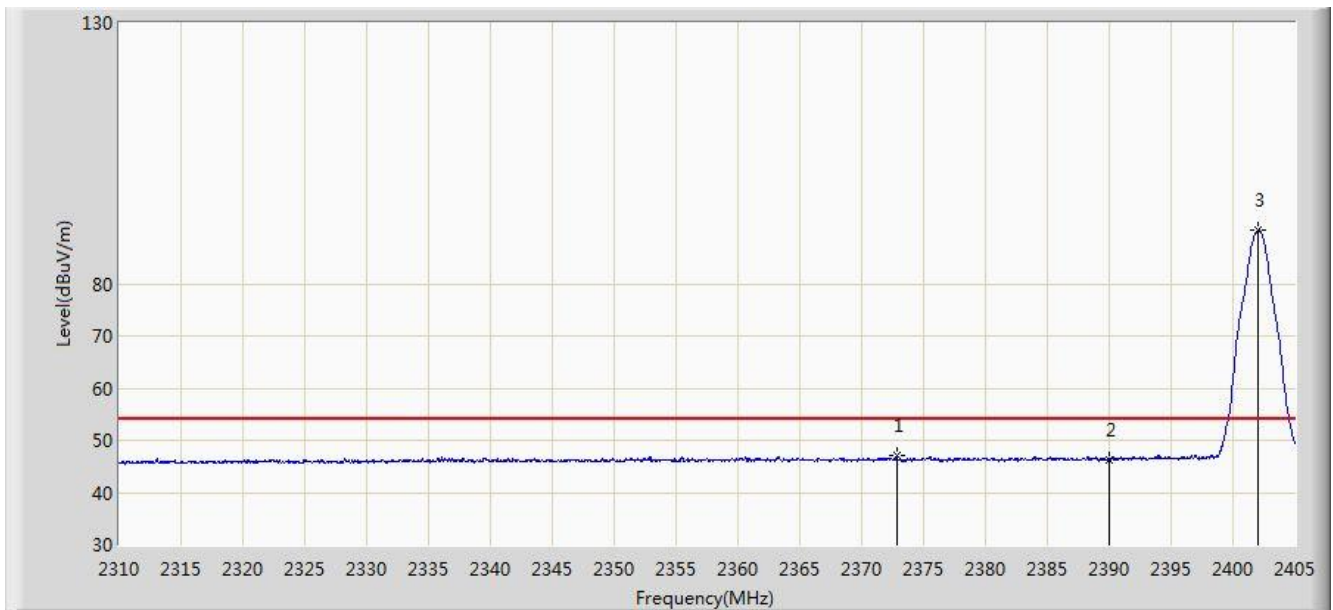


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2380.395	59.972	27.719	-14.028	74.000	32.253	PK
2			2390.000	57.764	25.468	-16.236	74.000	32.296	PK
3		*	2401.437	91.677	59.331	N/A	N/A	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2402MHz	

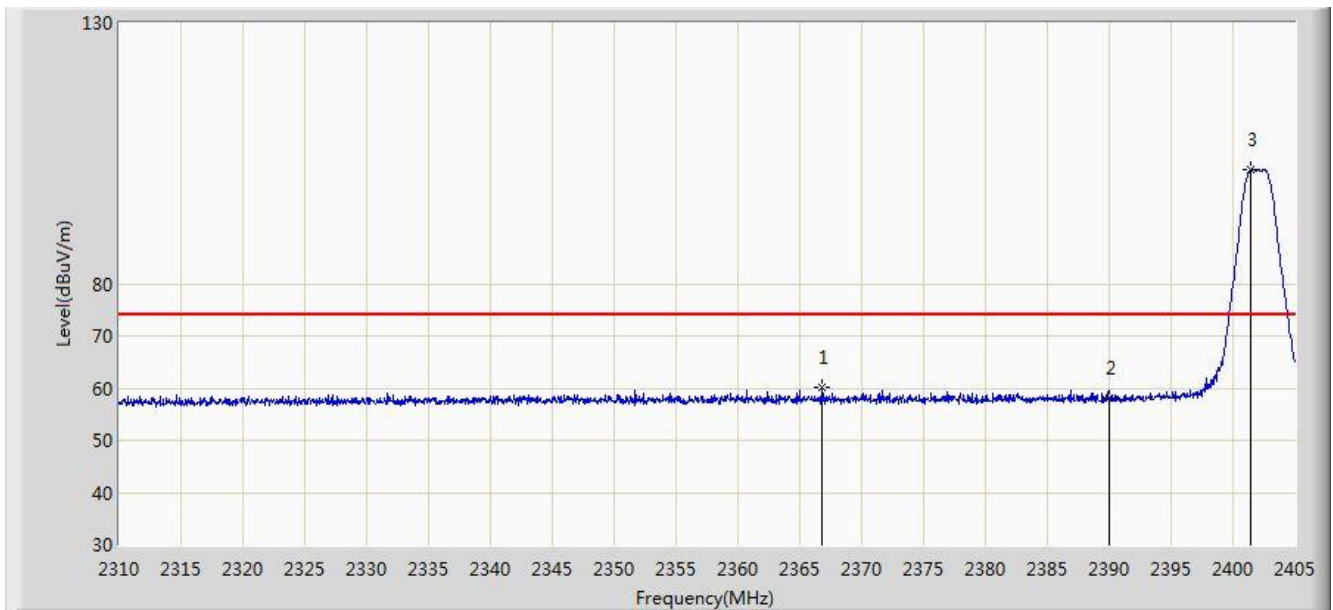


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2372.843	46.998	14.778	-7.002	54.000	32.220	AV
2			2390.000	46.295	13.999	-7.705	54.000	32.296	AV
3		*	2402.008	90.176	57.827	N/A	N/A	32.348	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 12:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2402MHz	

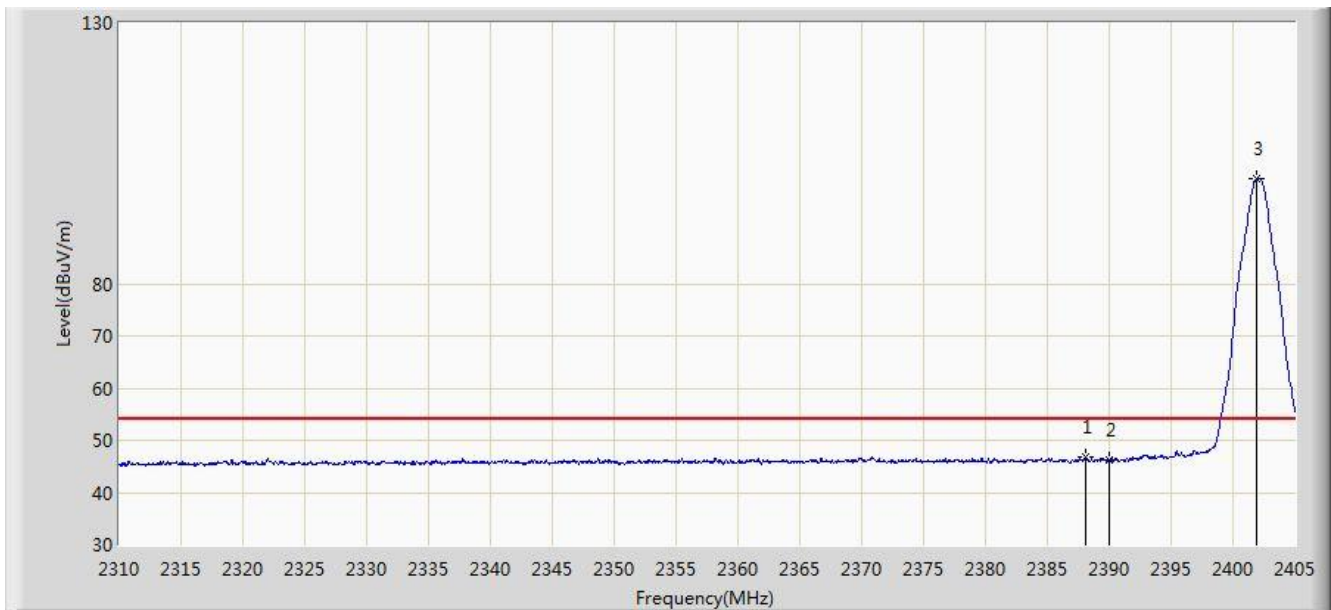


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2366.810	60.132	27.938	-13.868	74.000	32.194	PK
2			2390.000	58.112	25.816	-15.888	74.000	32.296	PK
3		*	2401.485	101.944	69.598	N/A	N/A	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 13:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2402MHz	

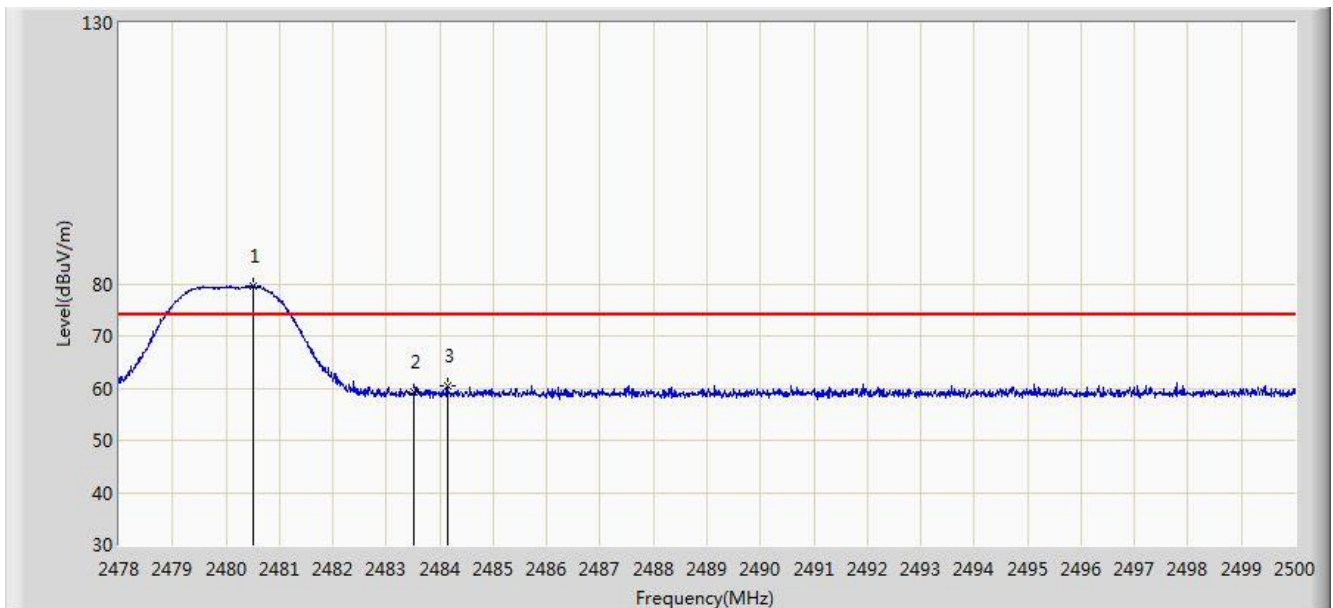


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.090	46.704	14.416	-7.296	54.000	32.288	AV
2			2390.000	46.124	13.828	-7.876	54.000	32.296	AV
3		*	2401.913	100.053	67.705	N/A	N/A	32.348	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 13:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2480MHz	

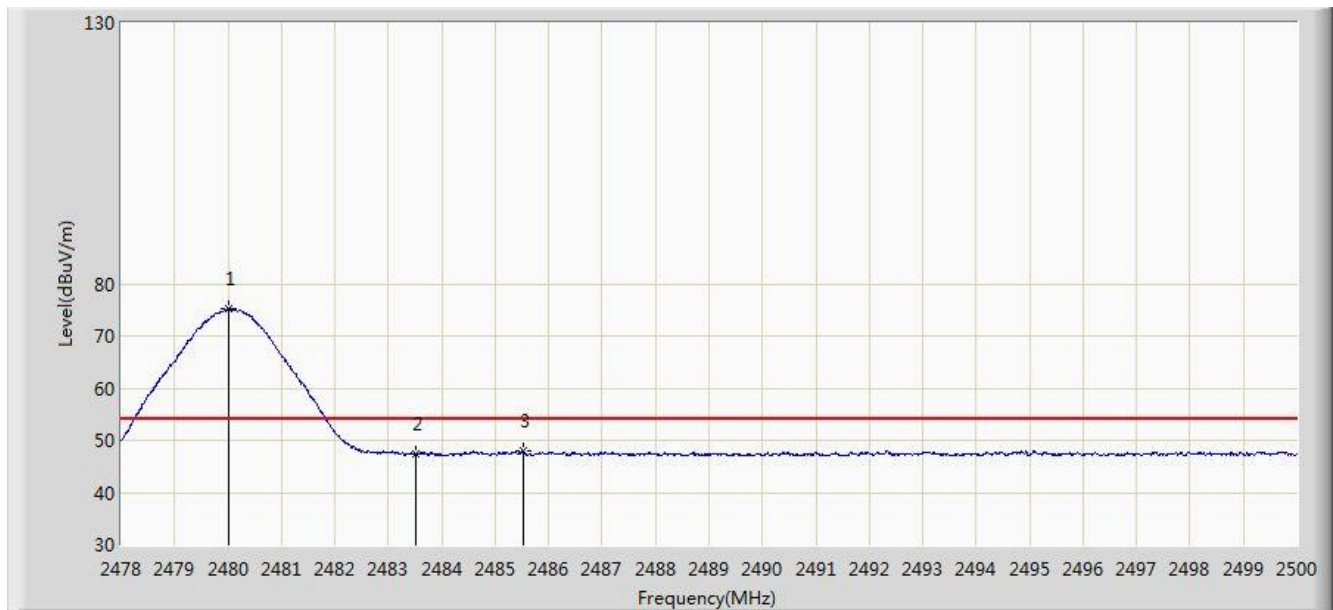


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.519	79.556	46.861	N/A	N/A	32.695	PK
2			2483.500	59.265	26.557	-14.735	74.000	32.707	PK
3			2484.138	60.358	27.648	-13.642	74.000	32.710	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 13:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2480MHz	

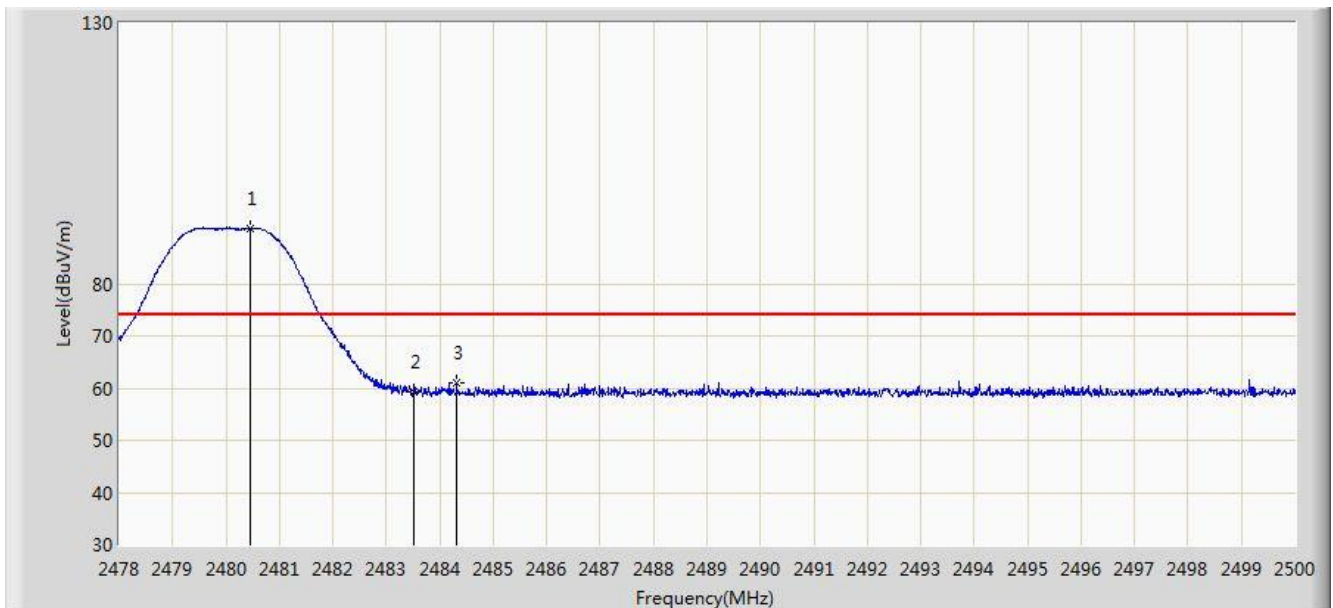


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.013	75.189	42.497	N/A	N/A	32.692	AV
2			2483.500	47.353	14.645	-6.647	54.000	32.707	AV
3			2485.513	47.836	15.120	-6.164	54.000	32.717	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 13:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.464	90.714	58.020	N/A	N/A	32.695	PK
2			2483.500	59.396	26.688	-14.604	74.000	32.707	PK
3			2484.314	61.008	28.297	-12.992	74.000	32.711	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2021/06/06 - 13:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Jay Chou
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: X2000/ATX2000 Main PCBA	Power: AC 120V/60Hz
Test Mode: Transmit by Chip 1 BLE 2M at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.079	88.745	56.052	N/A	N/A	32.692	AV
2			2483.500	47.507	14.799	-6.493	54.000	32.707	AV
3			2490.749	48.491	15.752	-5.509	54.000	32.739	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

7.8. AC Conducted Emissions Measurement

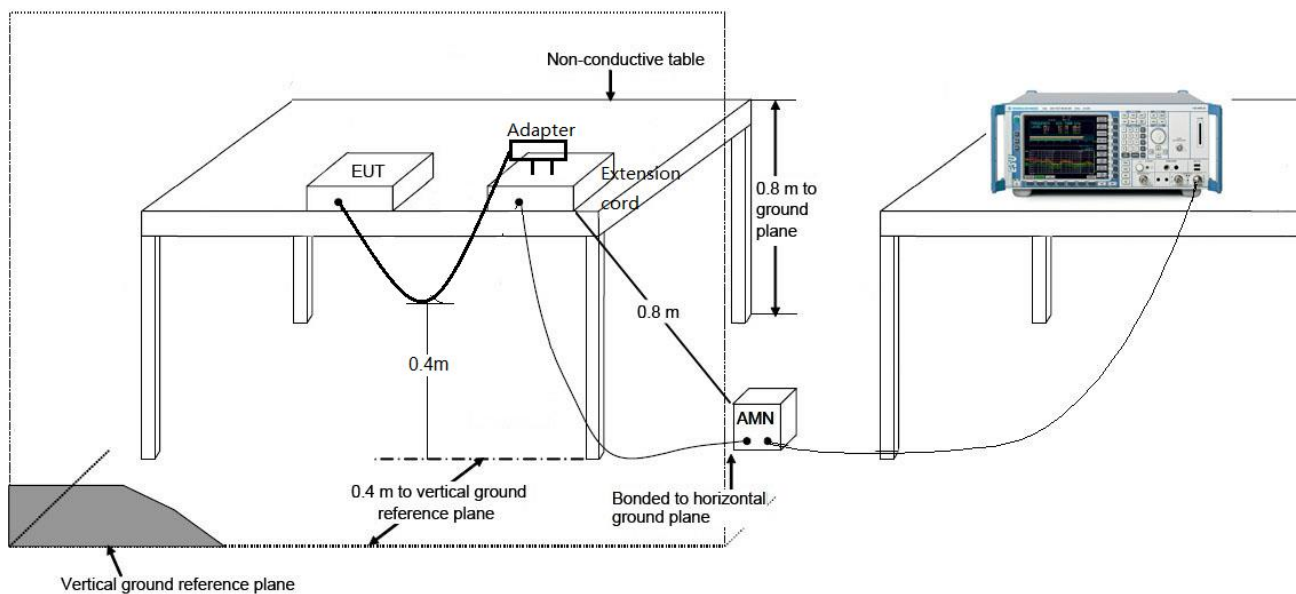
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Issue 5 Section 8.8 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

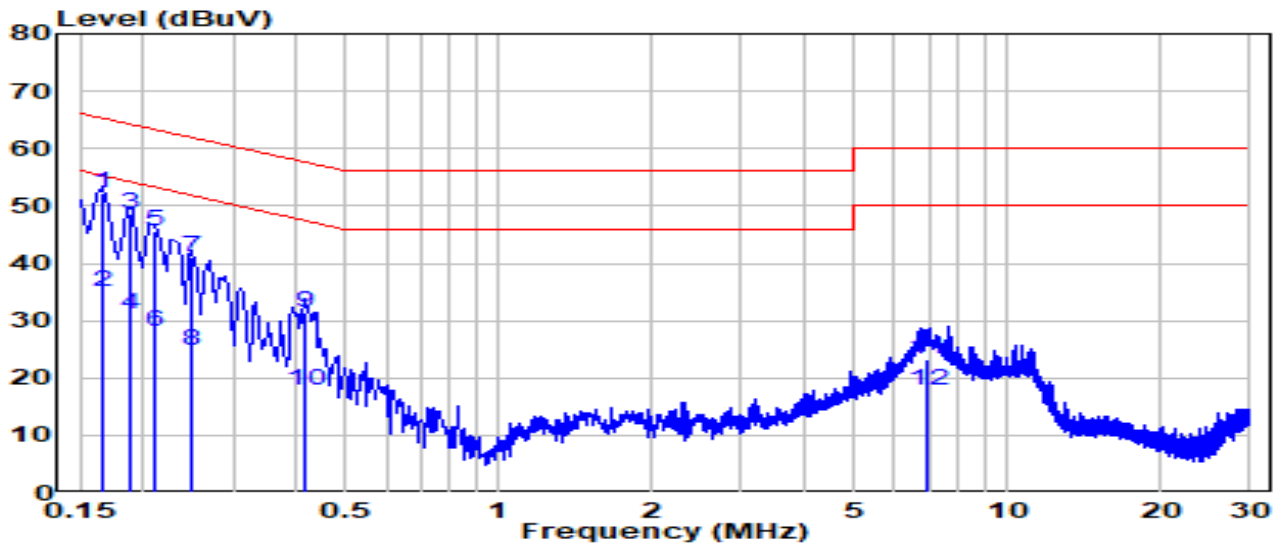
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-02
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	20.3°C /42%
Polarity	Line1	Site / Test Engineer	SR2 / Peter Xu
Test Mode	Transmit by BLE at channel 2402MHz BW=2M (Bluetooth chip 0 external antenna)	Test Voltage	120V/60Hz

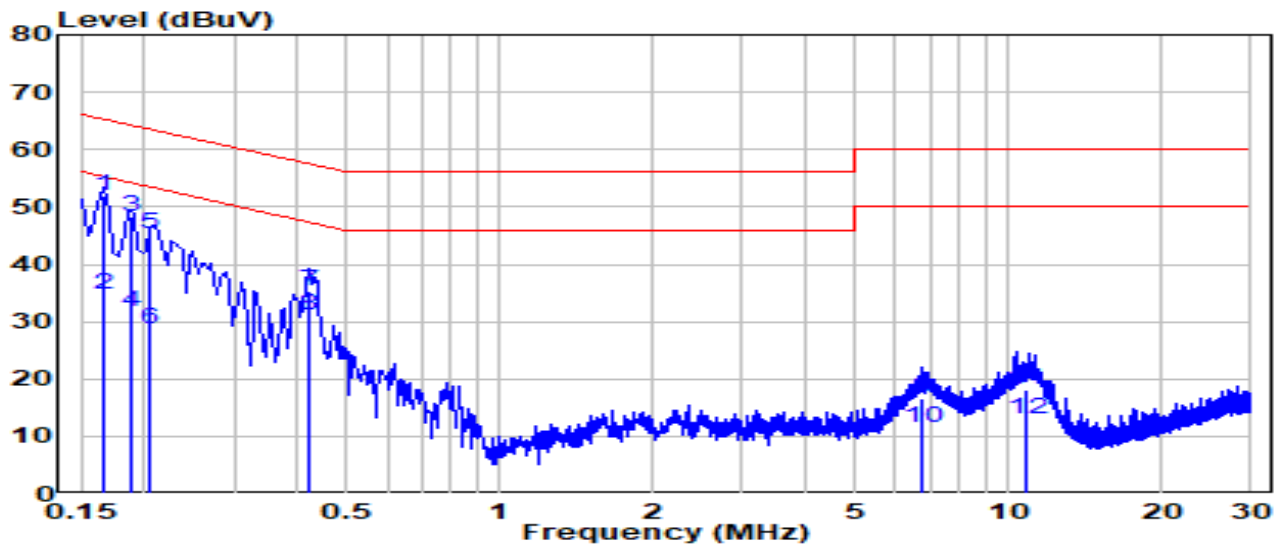


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.166	42.61	9.61	52.22	-12.95	65.17	QP
2		0.166	25.41	9.61	35.02	-20.15	55.17	Average
3		0.188	38.92	9.61	48.54	-15.58	64.12	QP
4		0.188	21.62	9.61	31.24	-22.88	54.12	Average
5		0.210	35.83	9.61	45.44	-17.79	63.23	QP
6		0.210	18.33	9.61	27.94	-25.29	53.23	Average
7		0.250	31.43	9.62	41.05	-20.72	61.77	QP
8		0.250	15.13	9.62	24.75	-27.02	51.77	Average
9		0.417	21.76	9.63	31.38	-26.13	57.52	QP
10		0.417	8.16	9.63	17.78	-29.73	47.52	Average
11		6.923	13.55	9.79	23.35	-36.65	60.00	QP
12		6.923	8.05	9.79	17.85	-32.15	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	X2000/ATX2000 Main PCBA	Date of Test	2021-03-02
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	20.3°C /42%
Polarity	Neutral	Site / Test Engineer	SR2 / Peter Xu
Test Mode	Transmit by BLE at channel 2402MHz BW=2M (Bluetooth chip 0 external antenna)	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	*	0.166	42.29	9.62	51.91	-13.26	65.17	QP
2		0.166	25.19	9.62	34.81	-20.36	55.17	Average
3		0.188	38.70	9.62	48.33	-15.80	64.13	QP
4		0.188	22.00	9.62	31.63	-22.50	54.13	Average
5		0.205	35.61	9.62	45.23	-18.18	63.41	QP
6		0.205	18.91	9.62	28.53	-24.88	53.41	Average
7		0.422	25.54	9.64	35.17	-22.24	57.42	QP
8		0.422	21.44	9.64	31.07	-16.34	47.42	Average
9		6.806	6.83	9.80	16.63	-43.37	60.00	QP
10		6.806	1.53	9.80	11.33	-38.67	50.00	Average
11		10.800	8.17	9.90	18.07	-41.93	60.00	QP
12		10.800	2.97	9.90	12.87	-37.13	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with Part 15C of the FCC Rules and ISED Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2105TW0001-Setup Photo” file.

Appendix B - External Photograph

Refer to “2105TW0001-External Photo” file.

Appendix C - Internal Photograph

Refer to “2105TW0001-Inernal Photo” file.