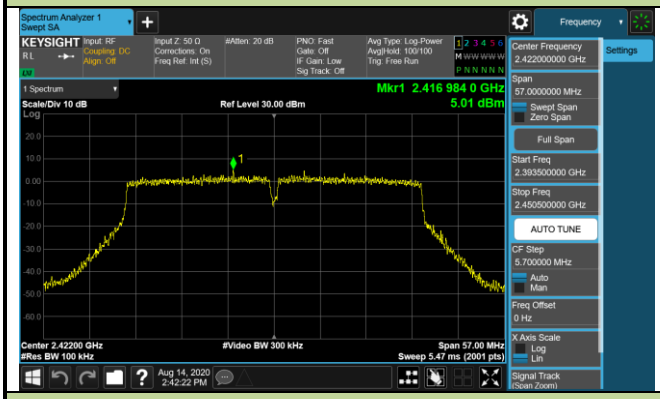
802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

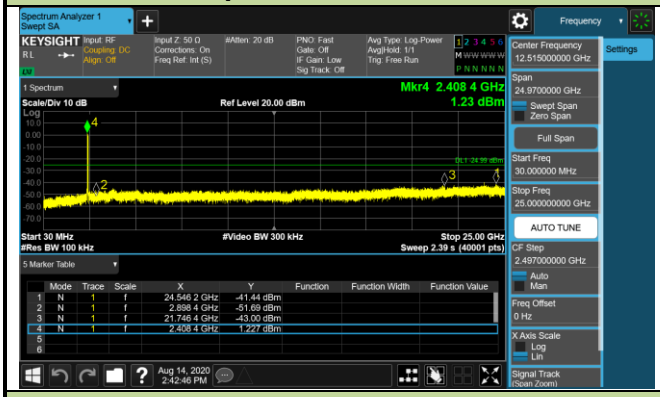
Channel 03 (2422MHz)

100kHz PSD reference Level



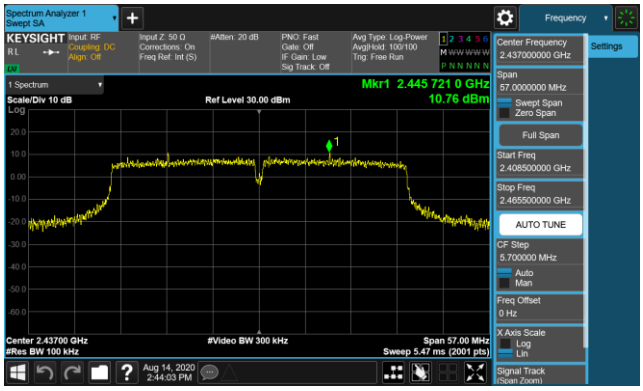
Low Band Edge

Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level

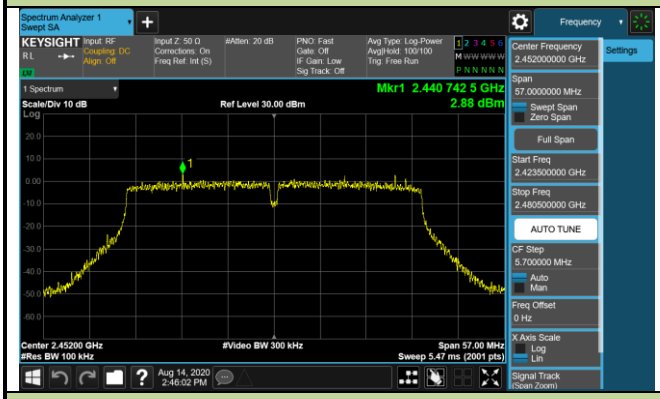


Spurious Emission

802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

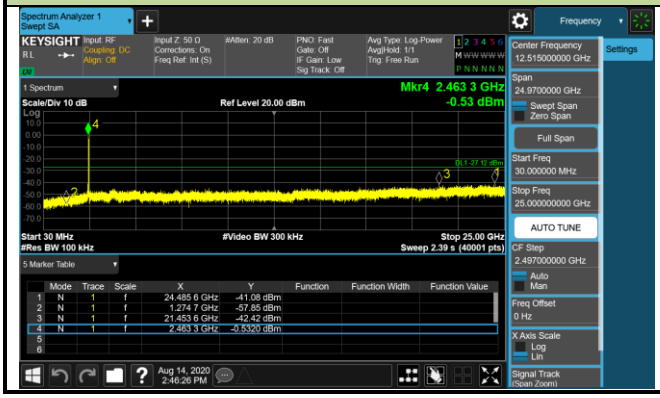
Channel 09 (2452MHz)

100kHz PSD reference Level



High Band Edge

Spurious Emission

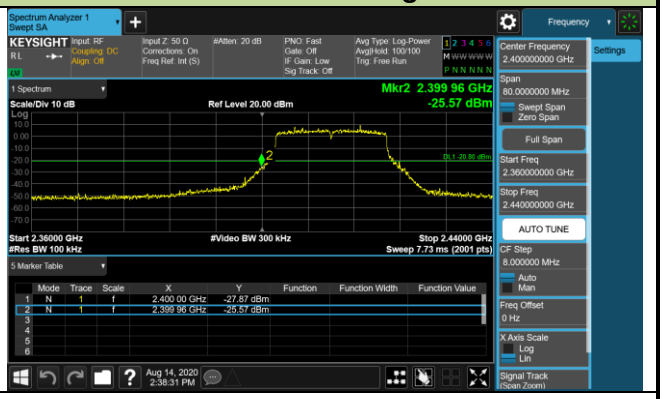


802.11ax-HE20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

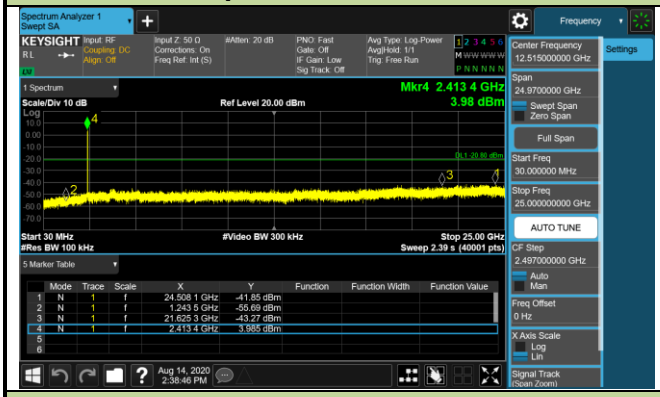
Channel 01 (2412MHz)

100kHz PSD reference Level

Low Band Edge

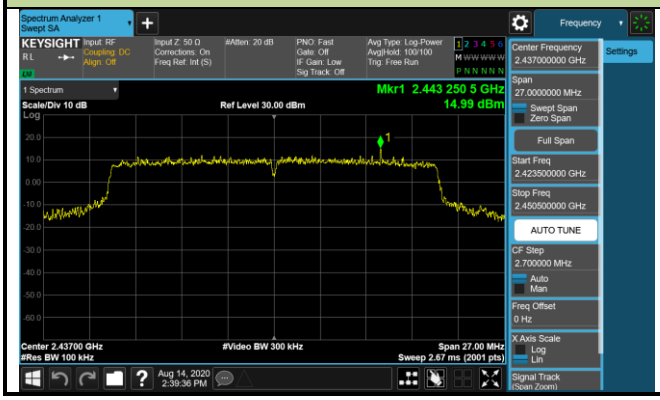


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level

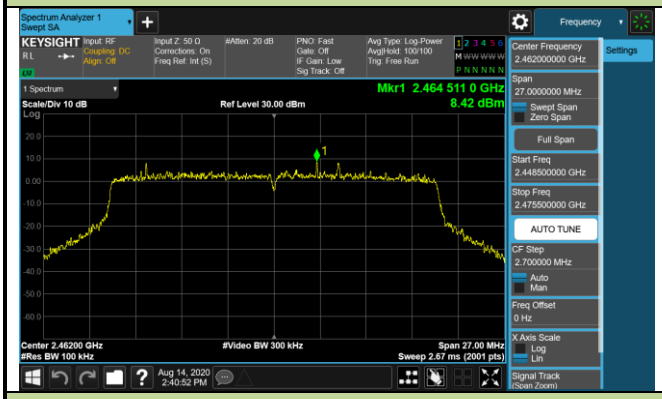


Spurious Emission

802.11ax-HE20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

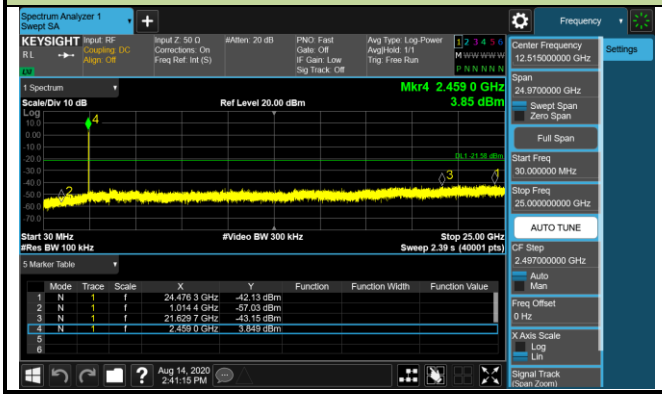
Channel 11 (2462MHz)

100kHz PSD reference Level



High Band Edge

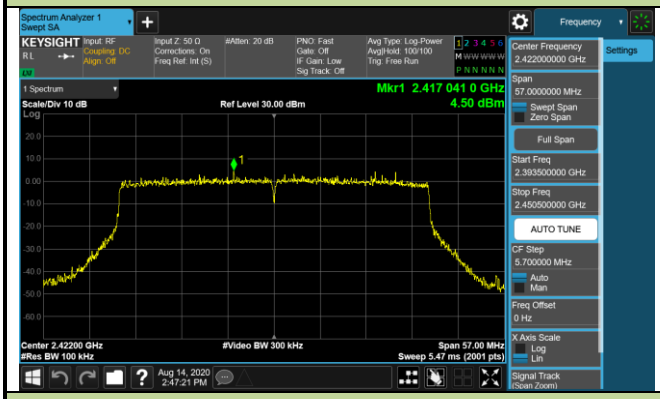
Spurious Emission



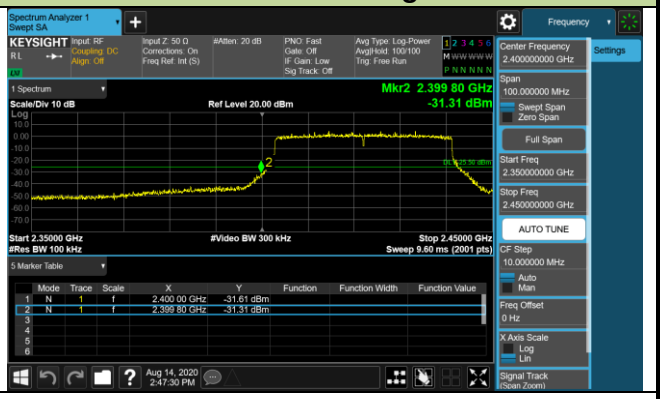
802.11ax-HE40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

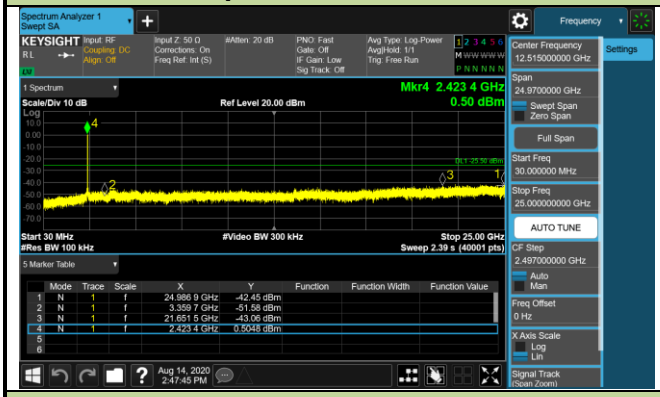
100kHz PSD reference Level



Low Band Edge

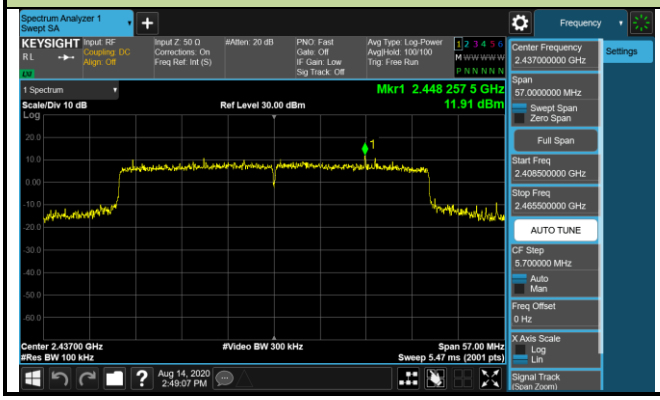


Spurious Emission



Channel 06 (2437MHz)

100kHz PSD reference Level

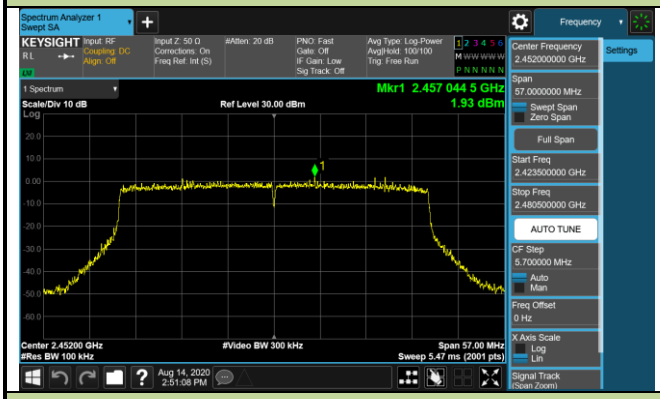


Spurious Emission

802.11ax-HE40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

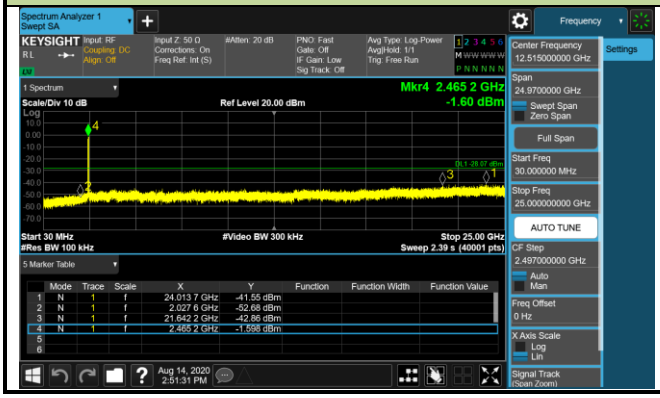
Channel 09 (2452MHz)

100kHz PSD reference Level



High Band Edge

Spurious Emission



6.6. Radiated Spurious Emission Measurement

6.6.1.Test Limit

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

6.6.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

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

6.6.3.Test Setting

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
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. Span was set greater than 1MHz

3. RBW = as specified in Table 1

4. Detector = CISPR quasi-peak

5. Sweep time = auto couple

6. Trace was allowed to stabilize

Peak Measurements above 1GHz

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 Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

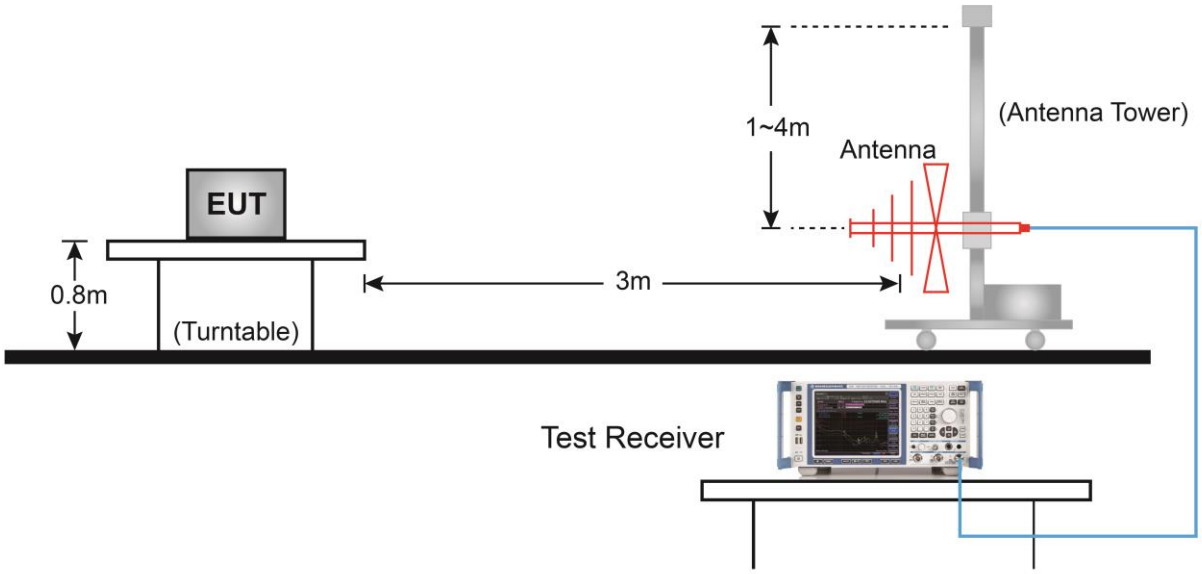
5. Sweep time = auto

6. Trace mode = max hold

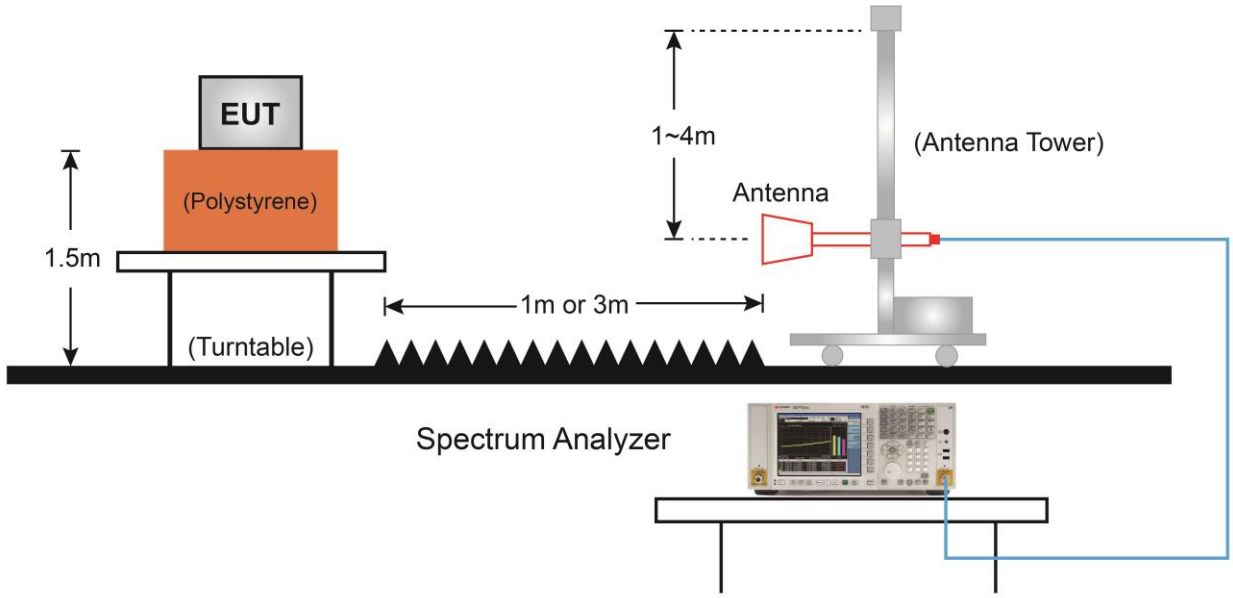
7. Trace was allowed to stabilize

6.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5.Test Result

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel	01
Note	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
	4825.0	38.7	-0.1	38.6	74.0	-35.4	Peak	Horizontal
*	6253.0	40.6	3.2	43.8	74.0	-30.2	Peak	Horizontal
	7443.0	34.6	8.3	42.9	74.0	-31.1	Peak	Horizontal
*	8794.5	32.3	10.0	42.3	74.0	-31.7	Peak	Horizontal
	4825.0	39.1	-0.1	39.0	74.0	-35.0	Peak	Vertical
*	6202.0	34.9	2.9	37.8	74.0	-36.2	Peak	Vertical
	7494.0	34.2	8.2	42.4	74.0	-31.6	Peak	Vertical
*	8896.5	32.6	10.0	42.6	74.0	-31.4	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel	06
Note	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
	4876.0	39.3	-0.4	38.9	74.0	-35.1	Peak	Horizontal
*	6253.0	38.9	3.2	42.1	74.0	-31.9	Peak	Horizontal
	7315.5	34.5	8.2	42.7	74.0	-31.3	Peak	Horizontal
*	8658.5	33.8	9.6	43.4	74.0	-30.6	Peak	Horizontal
	4663.5	36.0	0.0	36.0	74.0	-38.0	Peak	Vertical
*	6100.0	35.1	2.7	37.8	74.0	-36.2	Peak	Vertical
	7434.5	33.6	8.2	41.8	74.0	-32.2	Peak	Vertical
*	8871.0	32.3	9.9	42.2	74.0	-31.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11b - Ant 0 + 1 (CDD Mode)	Test Channel	11
Note	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
	5037.5	37.4	0.5	37.9	74.0	-36.1	Peak	Horizontal
*	6219.0	35.2	3.1	38.3	74.0	-35.7	Peak	Horizontal
	7443.0	34.3	8.3	42.6	74.0	-31.4	Peak	Horizontal
*	8692.5	32.2	9.6	41.8	74.0	-32.2	Peak	Horizontal
	6703.5	34.8	5.2	40.0	74.0	-34.0	Peak	Vertical
*	7468.5	33.5	8.2	41.7	74.0	-32.3	Peak	Vertical
	8582.0	34.1	8.8	42.9	74.0	-31.1	Peak	Vertical
*	9721.0	34.4	10.8	45.2	74.0	-28.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel	01
Note	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
	4791.0	36.5	0.2	36.7	74.0	-37.3	Peak	Horizontal
*	6253.0	40.4	3.2	43.6	74.0	-30.4	Peak	Horizontal
	7443.0	33.5	8.3	41.8	74.0	-32.2	Peak	Horizontal
*	9525.5	33.9	10.4	44.3	74.0	-29.7	Peak	Horizontal
	4927.0	36.2	0.2	36.4	74.0	-37.6	Peak	Vertical
*	7069.0	34.3	7.5	41.8	74.0	-32.2	Peak	Vertical
	8089.0	32.6	9.0	41.6	74.0	-32.4	Peak	Vertical
*	10120.5	33.4	11.2	44.6	74.0	-29.4	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel	06
Note	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
	5105.5	36.2	0.3	36.5	74.0	-37.5	Peak	Horizontal
*	6253.0	39.8	3.2	43.0	74.0	-31.0	Peak	Horizontal
	7434.5	35.2	8.2	43.4	74.0	-30.6	Peak	Horizontal
*	9780.5	34.5	10.6	45.1	74.0	-28.9	Peak	Horizontal
	5071.5	36.6	0.4	37.0	74.0	-37.0	Peak	Vertical
*	6253.0	35.5	3.2	38.7	74.0	-35.3	Peak	Vertical
	7706.5	34.6	8.1	42.7	74.0	-31.3	Peak	Vertical
*	9721.0	34.3	10.8	45.1	74.0	-28.9	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11g - Ant 0 + 1 (CDD Mode)	Test Channel	11
Note	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
	4978.0	37.0	-0.2	36.8	74.0	-37.2	Peak	Horizontal
*	6253.0	39.1	3.2	42.3	74.0	-31.7	Peak	Horizontal
	7502.5	32.8	8.0	40.8	74.0	-33.2	Peak	Horizontal
*	8888.0	32.7	10.0	42.7	74.0	-31.3	Peak	Horizontal
	5131.0	36.6	0.2	36.8	74.0	-37.2	Peak	Vertical
*	7035.0	34.2	7.2	41.4	74.0	-32.6	Peak	Vertical
	7468.5	33.3	8.2	41.5	74.0	-32.5	Peak	Vertical
*	9721.0	33.0	10.8	43.8	74.0	-30.2	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel	01
Note	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
	5063.0	36.2	0.6	36.8	74.0	-37.2	Peak	Horizontal
*	6253.0	39.6	3.2	42.8	74.0	-31.2	Peak	Horizontal
	7536.5	33.5	8.1	41.6	74.0	-32.4	Peak	Horizontal
*	9678.5	32.9	10.7	43.6	74.0	-30.4	Peak	Horizontal
	4918.5	37.6	0.1	37.7	74.0	-36.3	Peak	Vertical
*	6440.0	34.9	4.2	39.1	74.0	-34.9	Peak	Vertical
	7468.5	32.8	8.2	41.0	74.0	-33.0	Peak	Vertical
*	8752.0	33.3	10.1	43.4	74.0	-30.6	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel	06
Note	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
	4927.0	36.4	0.2	36.6	74.0	-37.4	Peak	Horizontal
*	6253.0	39.3	3.2	42.5	74.0	-31.5	Peak	Horizontal
	7545.0	34.6	8.2	42.8	74.0	-31.2	Peak	Horizontal
*	8658.5	34.0	9.6	43.6	74.0	-30.4	Peak	Horizontal
	5003.5	36.5	0.0	36.5	74.0	-37.5	Peak	Vertical
*	6015.0	35.6	2.5	38.1	74.0	-35.9	Peak	Vertical
	7579.0	33.7	8.3	42.0	74.0	-32.0	Peak	Vertical
*	8650.0	33.9	9.5	43.4	74.0	-30.6	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11n-HT20 - Ant 0 + 1 (CDD Mode)	Test Channel	11
Note	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
	4927.0	36.6	0.2	36.8	74.0	-37.2	Peak	Horizontal
*	6253.0	39.4	3.2	42.6	74.0	-31.4	Peak	Horizontal
	7400.5	33.0	8.2	41.2	74.0	-32.8	Peak	Horizontal
*	8590.5	34.3	9.1	43.4	74.0	-30.6	Peak	Horizontal
	4918.5	36.3	0.1	36.4	74.0	-37.6	Peak	Vertical
*	6253.0	40.1	3.2	43.3	74.0	-30.7	Peak	Vertical
	7579.0	34.4	8.3	42.7	74.0	-31.3	Peak	Vertical
*	10052.5	34.5	11.1	45.6	74.0	-28.4	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11n-HT40 - Ant 0 + 1 (CDD Mode)	Test Channel	03
Note	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
	5063.0	37.0	0.6	37.6	74.0	-36.4	Peak	Horizontal
*	6253.0	40.0	3.2	43.2	74.0	-30.8	Peak	Horizontal
	7553.5	34.2	8.2	42.4	74.0	-31.6	Peak	Horizontal
*	9636.0	33.9	10.5	44.4	74.0	-29.6	Peak	Horizontal
	5046.0	36.6	0.5	37.1	74.0	-36.9	Peak	Vertical
*	6661.0	34.7	4.8	39.5	74.0	-34.5	Peak	Vertical
	7400.5	33.9	8.2	42.1	74.0	-31.9	Peak	Vertical
*	9780.5	34.5	10.6	45.1	74.0	-28.9	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11n-HT40 - Ant 0 + 1 (CDD Mode)	Test Channel	06
Note	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
	4791.0	35.0	0.2	35.2	74.0	-38.8	Peak	Horizontal
*	6882.0	34.4	5.7	40.1	74.0	-33.9	Peak	Horizontal
	8089.0	33.8	9.0	42.8	74.0	-31.2	Peak	Horizontal
*	9763.5	33.8	10.7	44.5	74.0	-29.5	Peak	Horizontal
	4901.5	35.1	0.0	35.1	74.0	-38.9	Peak	Vertical
*	6091.5	35.2	2.8	38.0	74.0	-36.0	Peak	Vertical
	7528.0	34.4	7.9	42.3	74.0	-31.7	Peak	Vertical
*	9721.0	33.8	10.8	44.6	74.0	-29.4	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11n-HT40 - Ant 0 + 1 (CDD Mode)	Test Channel	09
Note	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
	5071.5	37.1	0.4	37.5	74.0	-36.5	Peak	Horizontal
*	6253.0	39.1	3.2	42.3	74.0	-31.7	Peak	Horizontal
	7587.5	34.3	8.3	42.6	74.0	-31.4	Peak	Horizontal
*	9712.5	34.4	10.9	45.3	74.0	-28.7	Peak	Horizontal
	5046.0	36.5	0.5	37.0	74.0	-37.0	Peak	Vertical
*	6491.0	34.9	4.4	39.3	74.0	-34.7	Peak	Vertical
	7570.5	34.8	8.2	43.0	74.0	-31.0	Peak	Vertical
*	9695.5	34.1	10.8	44.9	74.0	-29.1	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11ax-HE20 - Ant 0 + 1 (CDD Mode)	Test Channel	01
Note	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
	5046.0	37.3	0.5	37.8	74.0	-36.2	Peak	Horizontal
*	6253.0	39.4	3.2	42.6	74.0	-31.4	Peak	Horizontal
	7553.5	34.1	8.2	42.3	74.0	-31.7	Peak	Horizontal
*	9602.0	34.1	10.6	44.7	74.0	-29.3	Peak	Horizontal
	5029.0	36.1	0.5	36.6	74.0	-37.4	Peak	Vertical
*	6244.5	35.0	3.0	38.0	74.0	-36.0	Peak	Vertical
	7477.0	32.3	8.2	40.5	74.0	-33.5	Peak	Vertical
*	10163.0	33.3	11.7	45.0	74.0	-29.0	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11ax-HE20 - Ant 0 + 1 (CDD Mode)	Test Channel	06
Note	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
	4944.0	37.5	0.0	37.5	74.0	-36.5	Peak	Horizontal
*	6253.0	39.3	3.2	42.5	74.0	-31.5	Peak	Horizontal
	7485.5	34.0	8.3	42.3	74.0	-31.7	Peak	Horizontal
*	9721.0	33.5	10.8	44.3	74.0	-29.7	Peak	Horizontal
	4850.5	37.0	-0.3	36.7	74.0	-37.3	Peak	Vertical
*	6584.5	35.2	5.1	40.3	74.0	-33.7	Peak	Vertical
	7451.5	33.2	8.3	41.5	74.0	-32.5	Peak	Vertical
*	9721.0	34.4	10.8	45.2	74.0	-28.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11ax-HE20 - Ant 0 + 1 (CDD Mode)	Test Channel	11
Note	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
	5063.0	36.4	0.6	37.0	74.0	-37.0	Peak	Horizontal
*	6253.0	39.8	3.2	43.0	74.0	-31.0	Peak	Horizontal
	7545.0	34.4	8.2	42.6	74.0	-31.4	Peak	Horizontal
*	9619.0	34.2	10.8	45.0	74.0	-29.0	Peak	Horizontal
	4833.5	34.8	-0.1	34.7	74.0	-39.3	Peak	Vertical
*	6261.5	35.1	3.2	38.3	74.0	-35.7	Peak	Vertical
	7460.0	34.2	8.3	42.5	74.0	-31.5	Peak	Vertical
*	9593.5	32.8	10.5	43.3	74.0	-30.7	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11ax-HE40 - Ant 0 + 1 (CDD Mode)	Test Channel	03
Note	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
	5046.0	35.9	0.5	36.4	74.0	-37.6	Peak	Horizontal
*	6253.0	40.6	3.2	43.8	74.0	-30.2	Peak	Horizontal
	7434.5	34.2	8.2	42.4	74.0	-31.6	Peak	Horizontal
*	9780.5	33.7	10.6	44.3	74.0	-29.7	Peak	Horizontal
	4842.0	36.8	-0.2	36.6	74.0	-37.4	Peak	Vertical
*	6440.0	35.0	4.2	39.2	74.0	-34.8	Peak	Vertical
	7451.5	33.6	8.3	41.9	74.0	-32.1	Peak	Vertical
*	8735.0	31.2	9.8	41.0	74.0	-33.0	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11ax-HE40 - Ant 0 + 1 (CDD Mode)	Test Channel	06
Note	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
	5020.5	37.0	0.2	37.2	74.0	-36.8	Peak	Horizontal
*	6253.0	40.0	3.2	43.2	74.0	-30.8	Peak	Horizontal
	7434.5	32.9	8.2	41.1	74.0	-32.9	Peak	Horizontal
*	9729.5	33.4	10.8	44.2	74.0	-29.8	Peak	Horizontal
	5046.0	35.8	0.5	36.3	74.0	-37.7	Peak	Vertical
*	6219.0	35.5	3.1	38.6	74.0	-35.4	Peak	Vertical
	7409.0	33.9	8.2	42.1	74.0	-31.9	Peak	Vertical
*	10078.0	31.8	11.3	43.1	74.0	-30.9	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Buter Shi
Test Date	2020/08/13	Test Site	AC2
Test Mode	802.11ax-HE40 - Ant 0 + 1 (CDD Mode)	Test Channel	09
Note	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
	5131.0	36.9	0.2	37.1	74.0	-36.9	Peak	Horizontal
*	6253.0	39.3	3.2	42.5	74.0	-31.5	Peak	Horizontal
	7638.5	34.0	8.1	42.1	74.0	-31.9	Peak	Horizontal
*	9959.0	34.5	11.1	45.6	74.0	-28.4	Peak	Horizontal
	4901.5	37.7	0.0	37.7	74.0	-36.3	Peak	Vertical
*	6219.0	35.8	3.1	38.9	74.0	-35.1	Peak	Vertical
	7545.0	33.6	8.2	41.8	74.0	-32.2	Peak	Vertical
*	9746.5	33.4	10.8	44.2	74.0	-29.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	802.11ax-HE20 - Ant 0 + 1 (Beamforming Mode)	Test Channel	01
Note	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
	3932.5	38.3	-3.2	35.1	74.0	-38.9	Peak	Horizontal
	4502.0	38.5	-1.1	37.4	74.0	-36.6	Peak	Horizontal
*	5913.0	36.7	2.0	38.7	74.0	-35.3	Peak	Horizontal
*	7876.5	32.9	8.0	40.9	74.0	-33.1	Peak	Horizontal
	3915.5	38.0	-3.2	34.8	74.0	-39.2	Peak	Vertical
	4808.0	36.9	0.2	37.1	74.0	-36.9	Peak	Vertical
*	6737.5	35.3	5.2	40.5	74.0	-33.5	Peak	Vertical
*	7851.0	33.5	8.1	41.6	74.0	-32.4	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	802.11ax-HE20 - Ant 0 + 1 (Beamforming Mode)	Test Channel	06
Note	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
	4153.5	37.6	-2.0	35.6	74.0	-38.4	Peak	Horizontal
	4799.5	36.4	0.2	36.6	74.0	-37.4	Peak	Horizontal
*	6380.5	35.8	3.5	39.3	74.0	-34.7	Peak	Horizontal
*	7876.5	34.4	8.0	42.4	74.0	-31.6	Peak	Horizontal
	3898.5	37.6	-3.2	34.4	74.0	-39.6	Peak	Vertical
	4842.0	37.3	-0.2	37.1	74.0	-36.9	Peak	Vertical
*	6423.0	34.6	4.0	38.6	74.0	-35.4	Peak	Vertical
*	7910.5	33.1	8.1	41.2	74.0	-32.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	802.11ax-HE20 - Ant 0 + 1 (Beamforming Mode)	Test Channel	11
Note	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
	4128.0	37.7	-2.2	35.5	74.0	-38.5	Peak	Horizontal
	4842.0	36.7	-0.2	36.5	74.0	-37.5	Peak	Horizontal
*	6431.5	36.8	4.1	40.9	74.0	-33.1	Peak	Horizontal
*	7944.5	33.5	8.5	42.0	74.0	-32.0	Peak	Horizontal
	3924.0	37.9	-3.2	34.7	74.0	-39.3	Peak	Vertical
	4833.5	37.2	-0.1	37.1	74.0	-36.9	Peak	Vertical
*	6253.0	35.9	3.2	39.1	74.0	-34.9	Peak	Vertical
*	7876.5	33.2	8.0	41.2	74.0	-32.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	802.11ax-HE40 - Ant 0 + 1 (Beamforming Mode)	Test Channel	03
Note	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
	3881.5	39.1	-3.2	35.9	74.0	-38.1	Peak	Horizontal
	4808.0	36.7	0.2	36.9	74.0	-37.1	Peak	Horizontal
*	6584.5	35.0	5.1	40.1	74.0	-33.9	Peak	Horizontal
*	8820.0	34.6	9.8	44.4	74.0	-29.6	Peak	Horizontal
	3830.5	38.5	-3.6	34.9	74.0	-39.1	Peak	Vertical
	4850.5	37.3	-0.3	37.0	74.0	-37.0	Peak	Vertical
*	6253.0	36.1	3.2	39.3	74.0	-34.7	Peak	Vertical
*	8845.5	34.3	9.9	44.2	74.0	-29.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	802.11ax-HE40 - Ant 0 + 1 (Beamforming Mode)	Test Channel	06
Note	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
	3975.0	36.3	-3.2	33.1	74.0	-40.9	Peak	Horizontal
	4816.5	37.1	0.1	37.2	74.0	-36.8	Peak	Horizontal
*	6729.0	35.1	5.4	40.5	74.0	-33.5	Peak	Horizontal
*	7936.0	34.9	8.4	43.3	74.0	-30.7	Peak	Horizontal
	3864.5	38.2	-3.4	34.8	74.0	-39.2	Peak	Vertical
	4833.5	37.2	-0.1	37.1	74.0	-36.9	Peak	Vertical
*	6491.0	35.7	4.4	40.1	74.0	-33.9	Peak	Vertical
*	7944.5	33.7	8.5	42.2	74.0	-31.8	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	802.11ax-HE40 - Ant 0 + 1 (Beamforming Mode)	Test Channel	09
Note	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
	3881.5	38.1	-3.2	34.9	74.0	-39.1	Peak	Horizontal
	4816.5	36.9	0.1	37.0	74.0	-37.0	Peak	Horizontal
*	6533.5	35.0	4.5	39.5	74.0	-34.5	Peak	Horizontal
*	7953.0	33.8	8.6	42.4	74.0	-31.6	Peak	Horizontal
	3890.0	39.0	-3.2	35.8	74.0	-38.2	Peak	Vertical
	4765.5	37.2	0.0	37.2	74.0	-36.8	Peak	Vertical
*	6431.5	37.0	4.1	41.1	74.0	-32.9	Peak	Vertical
*	7910.5	34.6	8.1	42.7	74.0	-31.3	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	GigaSpire BLAST u4	Test Engineer	Cloud Guo
Test Date	2020/08/14	Test Site	AC2
Test Mode	Co-location mode (Wi-Fi 2.4G & 5G)		
Note	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
	8276.0	36.0	10.4	46.4	74	-27.6	Peak	Horizontal
	8760.5	36.7	12.6	49.3	74	-24.7	Peak	Horizontal
*	9712.5	36.7	13.2	49.9	74	-24.1	Peak	Horizontal
*	10732.5	36.0	15.1	51.1	74	-22.9	Peak	Horizontal
	8344.0	37.9	10.6	48.5	74	-25.5	Peak	Vertical
	8658.5	35.5	12.1	47.6	74	-26.4	Peak	Vertical
*	9721.0	34.7	13.2	47.9	74	-26.1	Peak	Vertical
*	10715.5	35.4	15.4	50.8	74	-23.2	Peak	Vertical

Note 1: “*” means test frequency did not fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

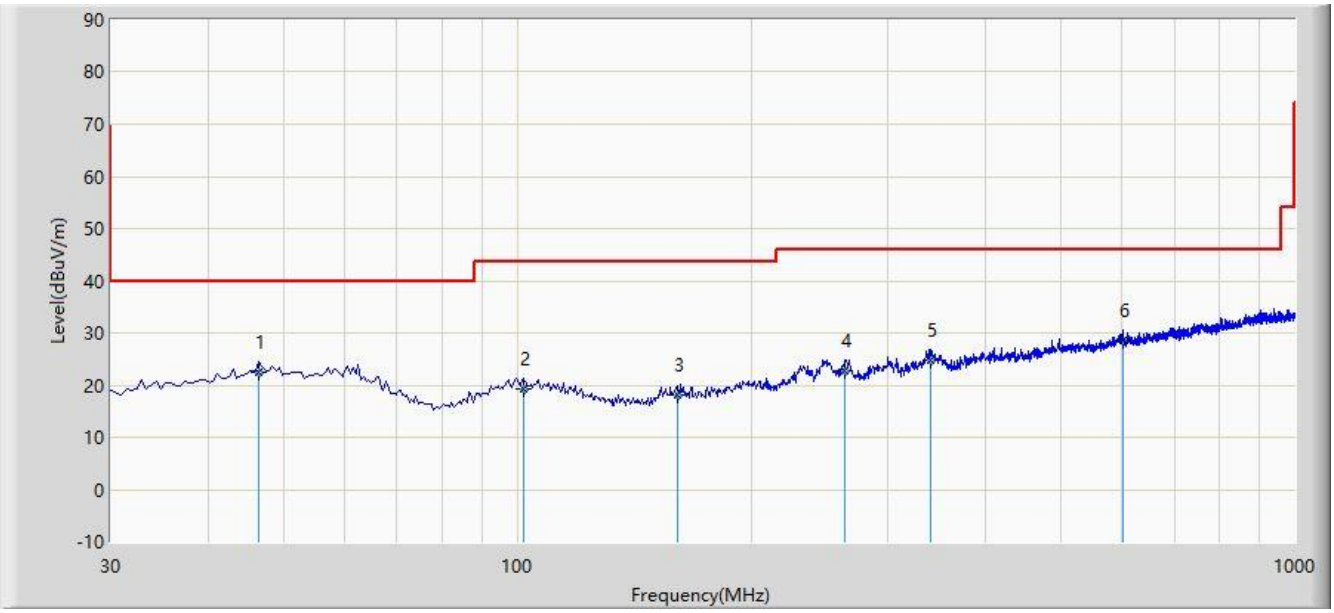
Note 3: We selected the worst-case mode of radiated spurious emissions from Wi-Fi 2.4GHz and 5GHz data.

Note 4: 2.4GHz Wi-Fi 802.11ax-HE40 Channel 2437MHz (CDD mode) Power setting = 27;

5GHz Band Wi-Fi 802.11n-HT40 Channel 5230MHz (CDD Mode) Power setting = 25.

The Worst Case of Radiated Emission below 1GHz:

Site: AC2	Time: 2020/08/12 - 21:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_VULB9162_0.03-7GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode 2	



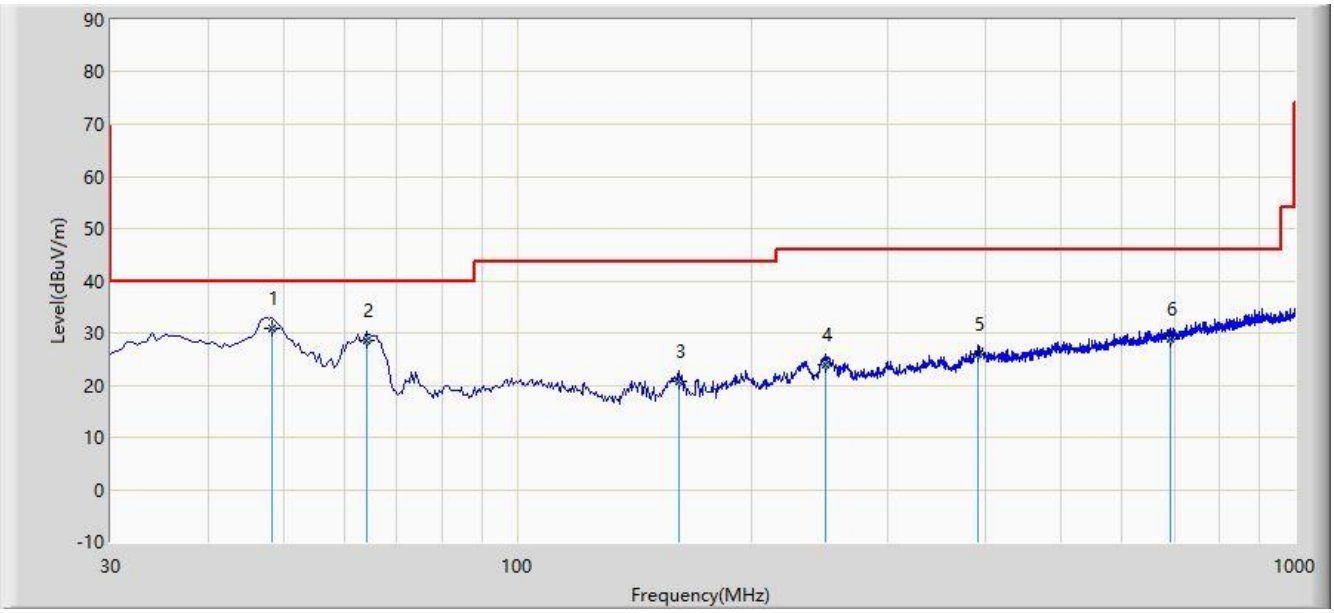
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			46.490	22.391	2.094	-17.609	40.000	20.298	QP
2			101.780	19.214	0.961	-24.286	43.500	18.253	QP
3			160.950	17.998	2.603	-25.502	43.500	15.395	QP
4			264.255	22.752	3.135	-23.248	46.000	19.617	QP
5			340.885	24.914	3.236	-21.086	46.000	21.678	QP
6		*	600.845	28.534	2.264	-17.466	46.000	26.270	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Note 2: The amplitude of radiated emissions (frequency range from 9kHz ~ 30MHz, 18GHz to 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.

Site: AC2	Time: 2020/08/12 - 21:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_VULB9162_0.03-7GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	48.430	30.825	10.451	-9.175	40.000	20.374	QP
2			63.950	28.411	10.294	-11.589	40.000	18.117	QP
3			161.435	20.630	5.204	-22.870	43.500	15.426	QP
4			248.735	23.827	4.539	-22.173	46.000	19.288	QP
5			391.810	25.820	3.320	-20.180	46.000	22.500	QP
6			692.510	28.845	1.547	-17.155	46.000	27.298	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Note 2: The amplitude of radiated emissions (frequency range from 9kHz ~ 30MHz, 18GHz to 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.

6.7. Radiated Restricted Band Edge Measurement

6.7.1.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 Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
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

6.7.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

6.7.3.Test Setting

Peak Field Strength Measurements

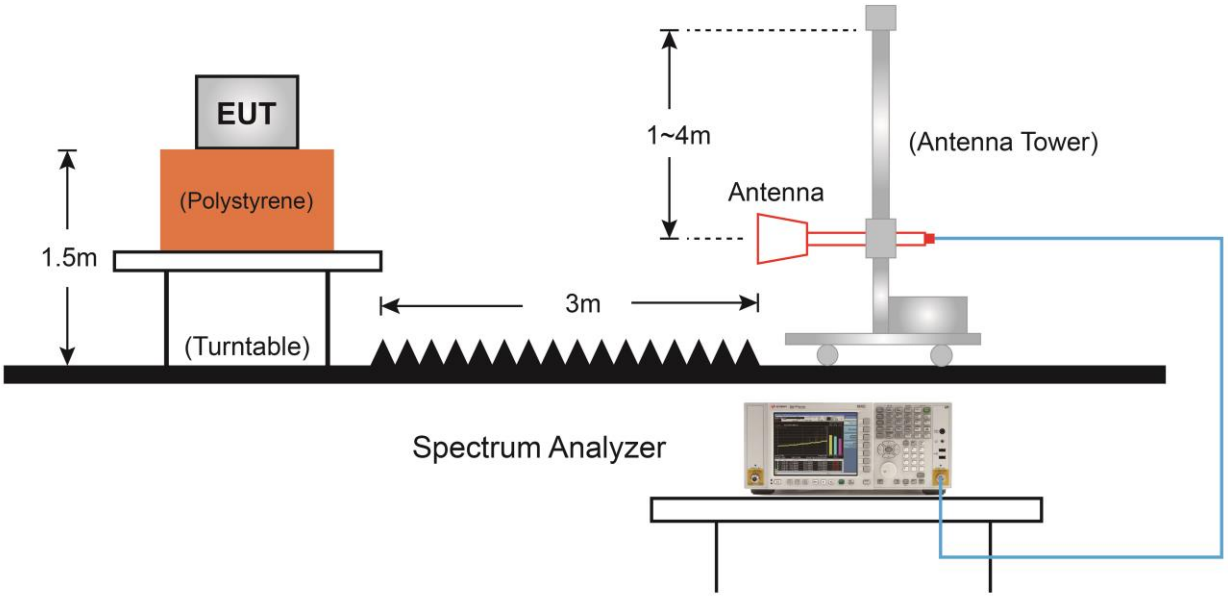
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

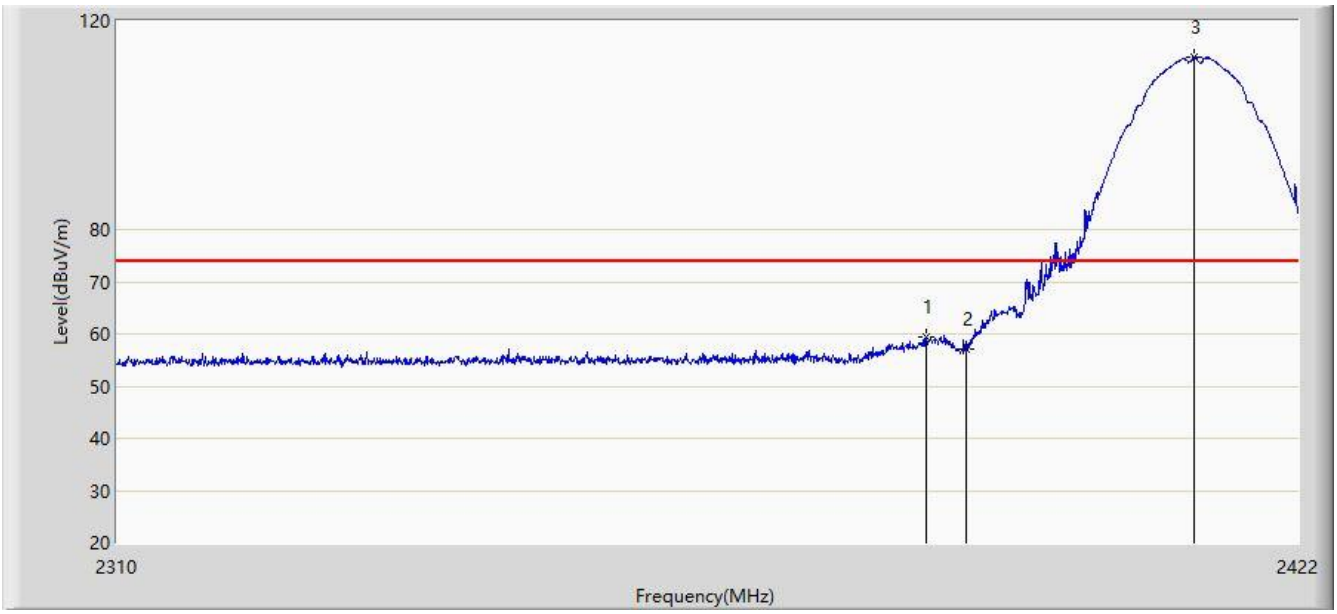
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.7.4.Test Setup



6.7.5.Test Result

Site: AC2	Time: 2020/08/01 - 13:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz (CDD Mode)	

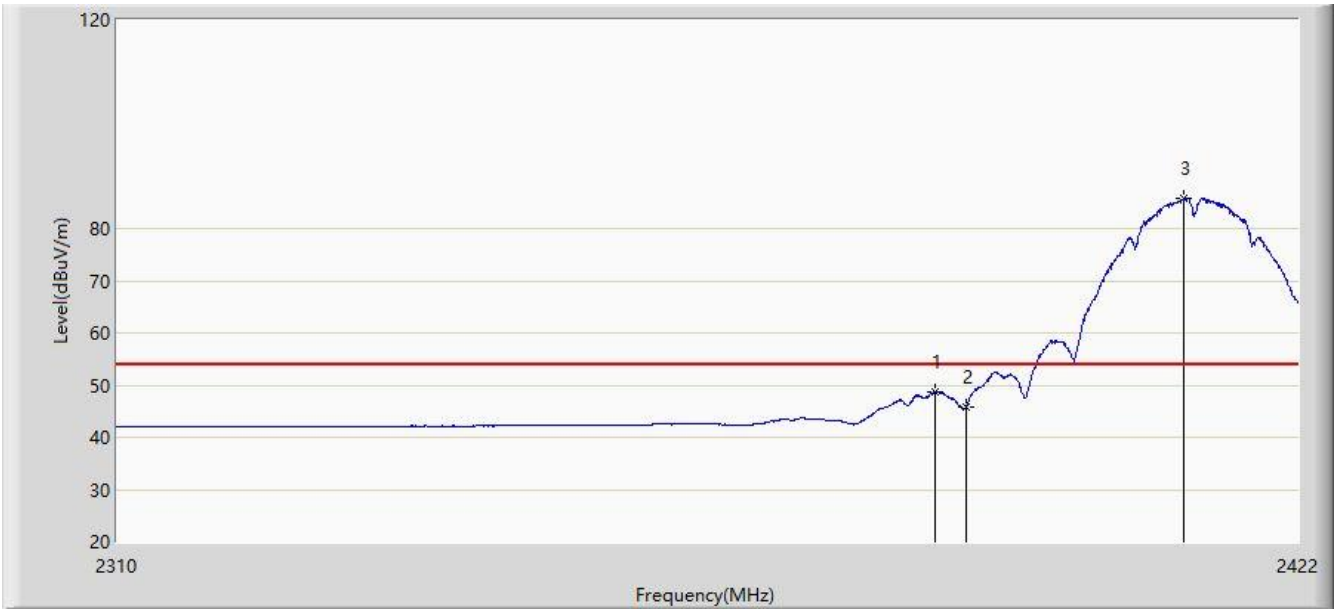


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.160	59.376	30.078	-14.624	74.000	29.298	PK
2			2390.000	56.963	27.668	-17.037	74.000	29.296	PK
3		*	2411.976	113.044	83.781	N/A	N/A	29.263	PK

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

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

Site: AC2	Time: 2020/08/01 - 13:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz (CDD Mode)	

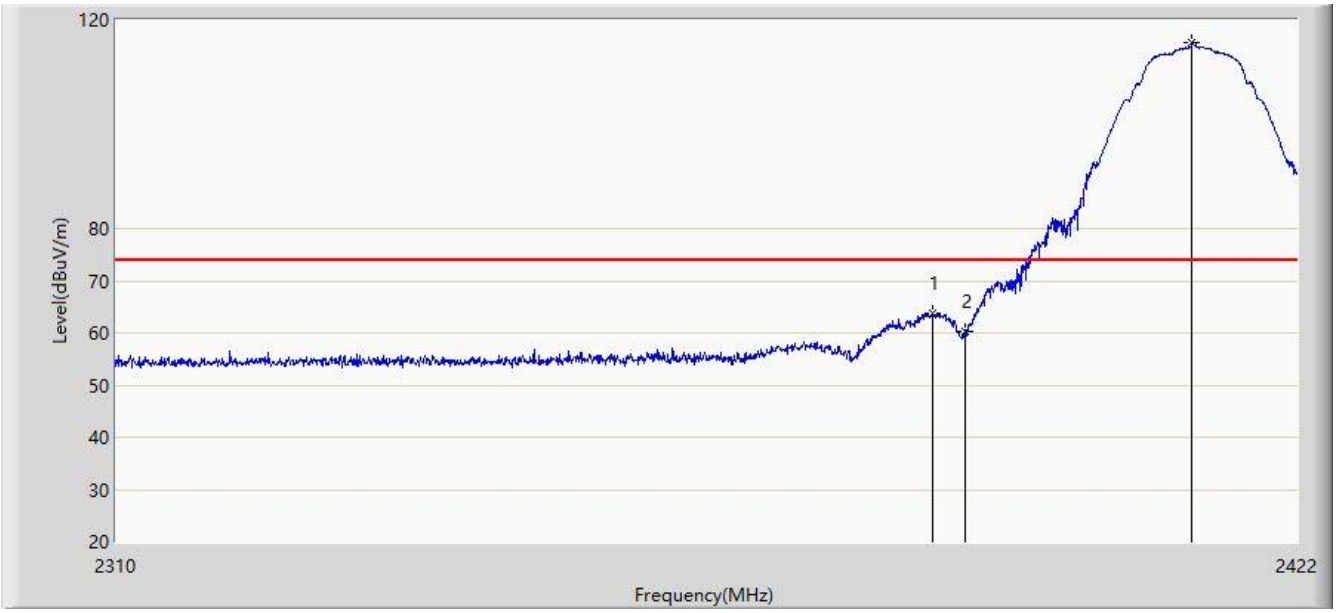


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.056	48.750	19.452	-5.250	54.000	29.297	AV
2			2390.000	45.785	16.490	-8.215	54.000	29.296	AV
3		*	2411.024	85.696	56.430	N/A	N/A	29.266	AV

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

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

Site: AC2	Time: 2020/08/01 - 13:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz (CDD Mode)	

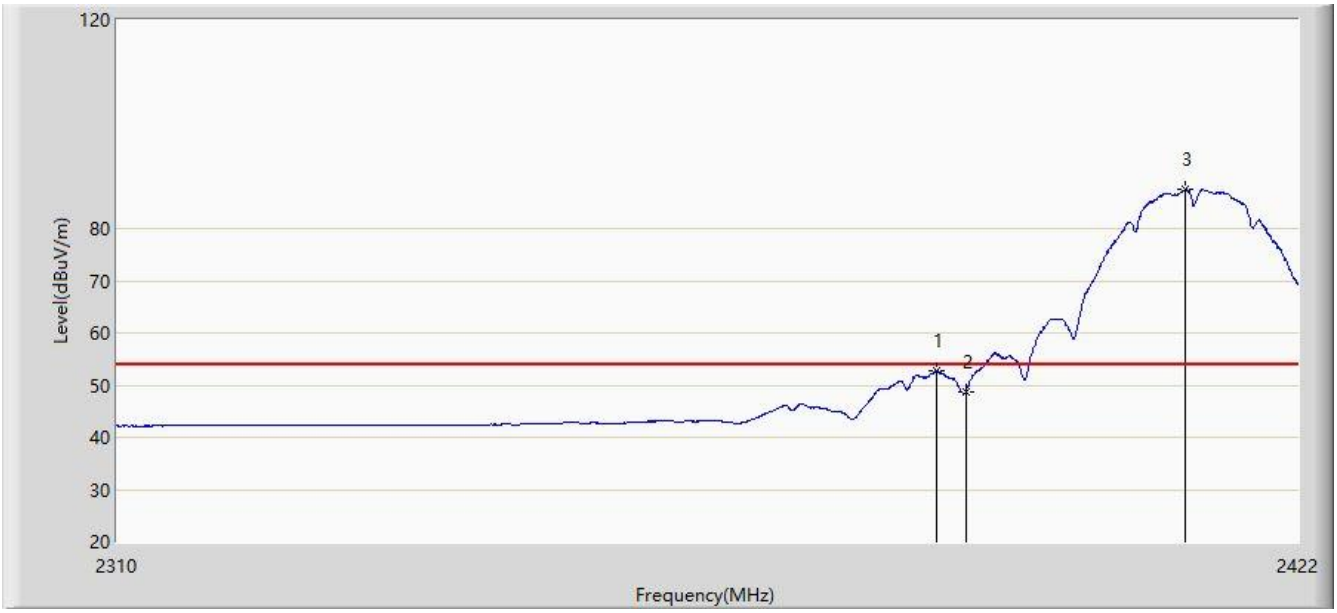


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.888	63.648	34.350	-10.352	74.000	29.297	PK
2			2390.000	60.155	30.860	-13.845	74.000	29.296	PK
3		*	2411.864	115.561	86.298	N/A	N/A	29.264	PK

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

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

Site: AC2	Time: 2020/08/01 - 13:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz (CDD Mode)	

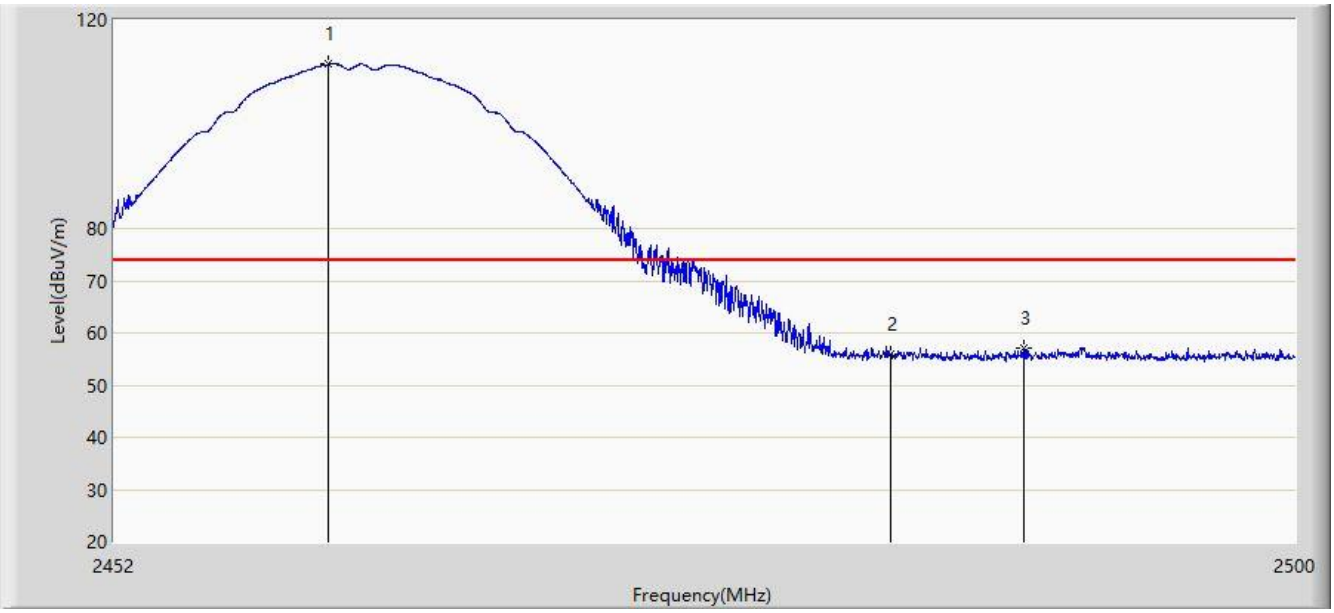


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.224	52.667	23.370	-1.333	54.000	29.297	AV
2			2390.000	48.602	19.307	-5.398	54.000	29.296	AV
3		*	2411.136	87.584	58.319	N/A	N/A	29.265	AV

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

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

Site: AC2	Time: 2020/08/01 - 13:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz (CDD Mode)	

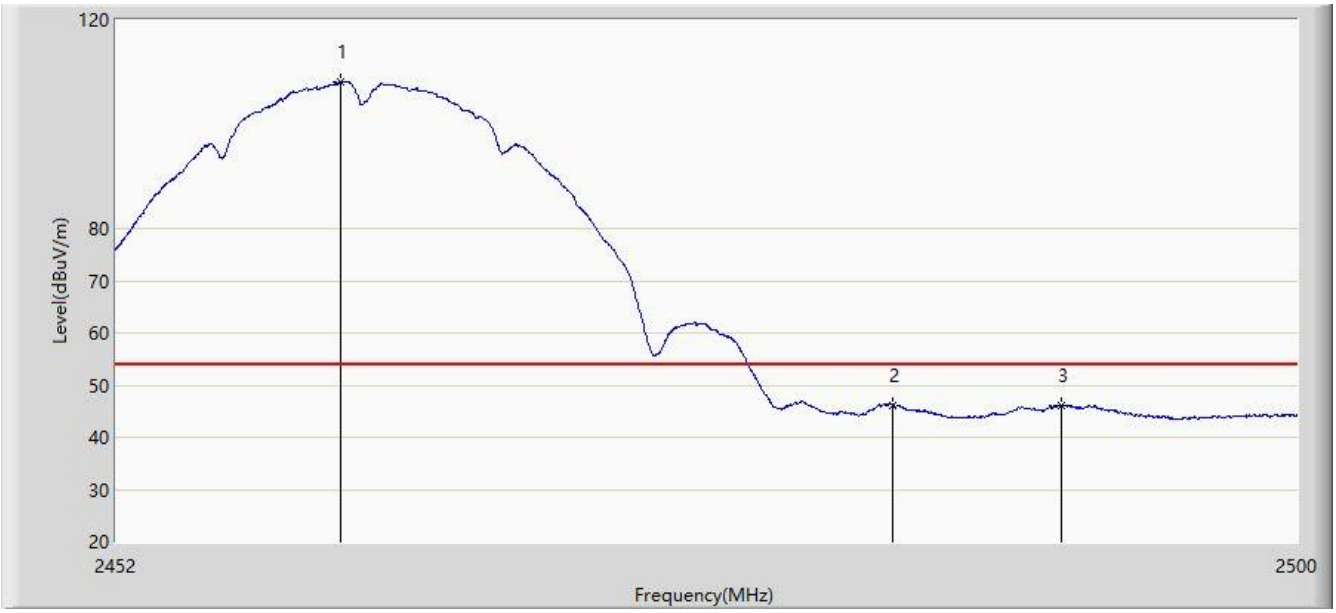


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.664	111.466	82.373	N/A	N/A	29.093	PK
2			2483.500	55.853	26.710	-18.147	74.000	29.143	PK
3			2488.912	57.242	28.097	-16.758	74.000	29.145	PK

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

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

Site: AC2	Time: 2020/08/01 - 13:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz (CDD Mode)	

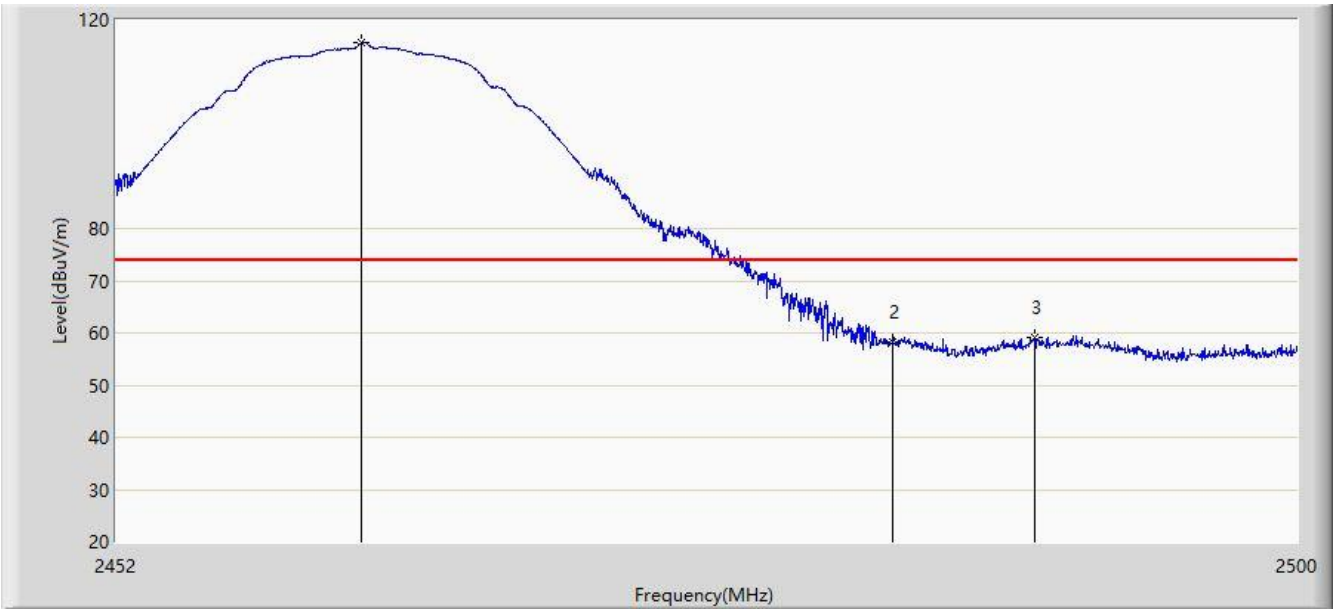


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	X	*	2461.048	108.099	79.004	N/A	N/A	29.095	AV
2			2483.500	46.217	17.074	-7.783	54.000	29.143	AV
3			2490.352	46.160	17.019	-7.840	54.000	29.141	AV

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

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

Site: AC2	Time: 2020/08/01 - 13:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz (CDD Mode)	

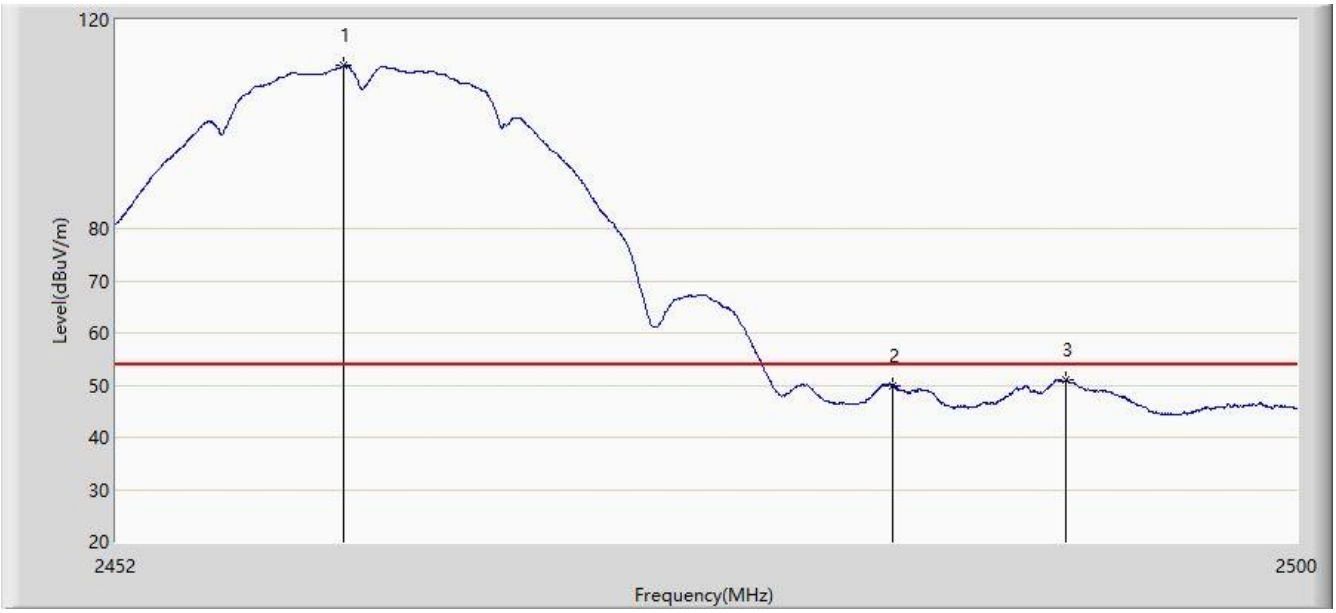


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.888	115.581	86.484	N/A	N/A	29.097	PK
2			2483.500	58.314	29.171	-15.686	74.000	29.143	PK
3			2489.296	59.039	29.895	-14.961	74.000	29.144	PK

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

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

Site: AC2	Time: 2020/08/01 - 13:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz (CDD Mode)	

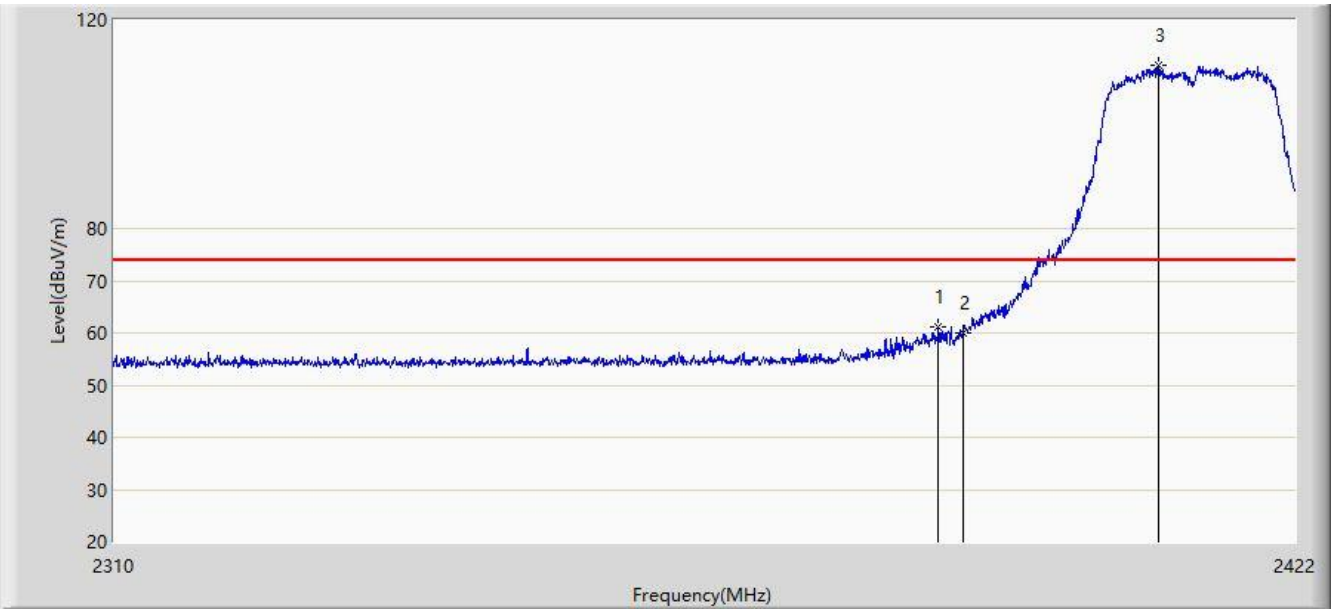


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	X	*	2461.192	111.186	82.091	N/A	N/A	29.095	AV
2			2483.500	49.982	20.839	-4.018	54.000	29.143	AV
3			2490.568	51.058	21.918	-2.942	54.000	29.140	AV

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

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

Site: AC2	Time: 2020/08/01 - 14:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2412MHz (CDD Mode)	

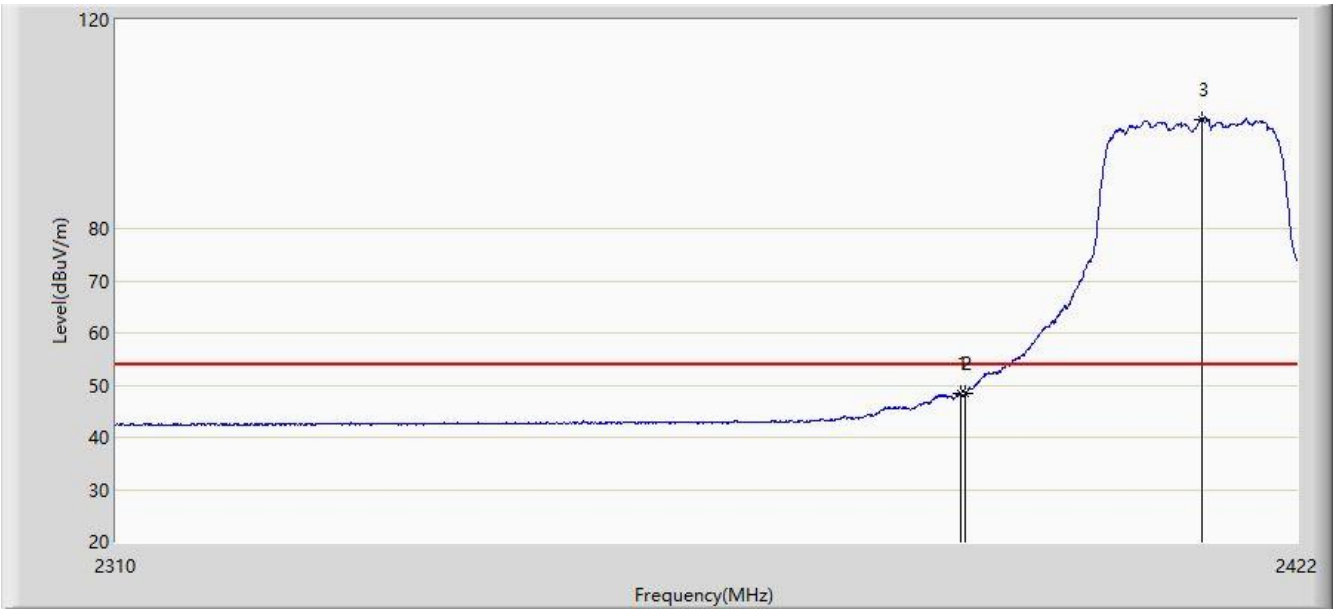


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.616	61.017	31.720	-12.983	74.000	29.297	PK
2			2390.000	59.910	30.615	-14.090	74.000	29.296	PK
3		*	2408.840	111.343	82.075	N/A	N/A	29.268	PK

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

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

Site: AC2	Time: 2020/08/01 - 14:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2412MHz (CDD Mode)	

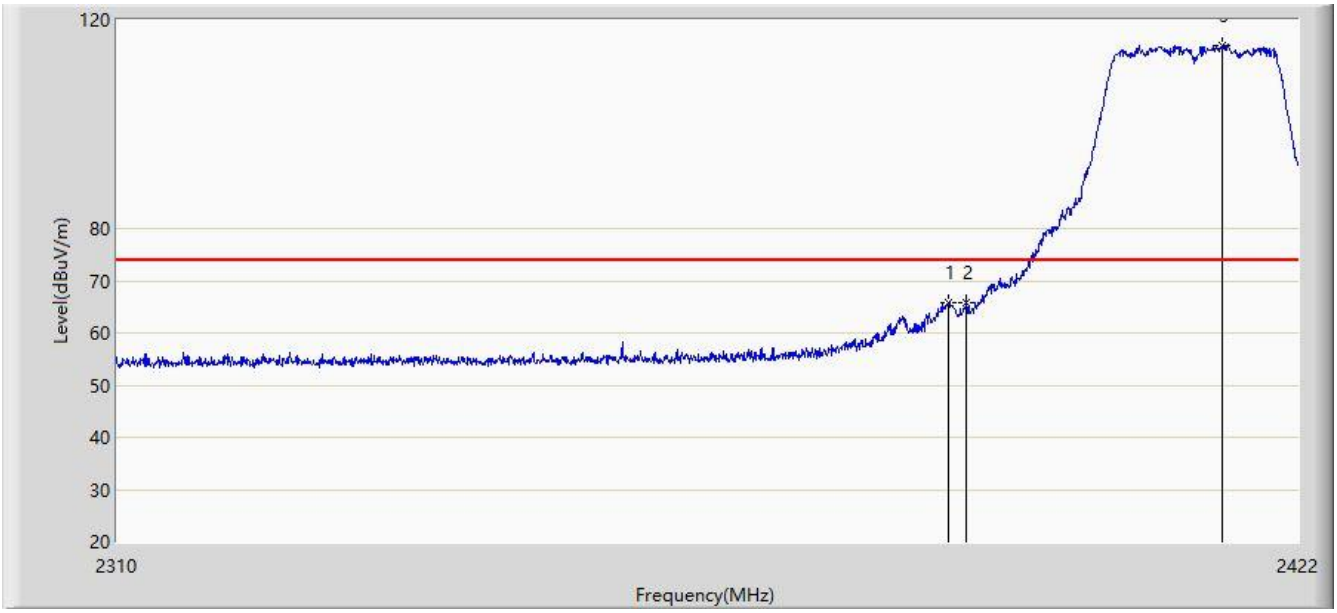


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.576	48.441	19.146	-5.559	54.000	29.296	AV
2			2390.000	48.302	19.007	-5.698	54.000	29.296	AV
3		*	2412.760	100.956	71.695	N/A	N/A	29.261	AV

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

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

Site: AC2	Time: 2020/08/01 - 14:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2412MHz (CDD Mode)	

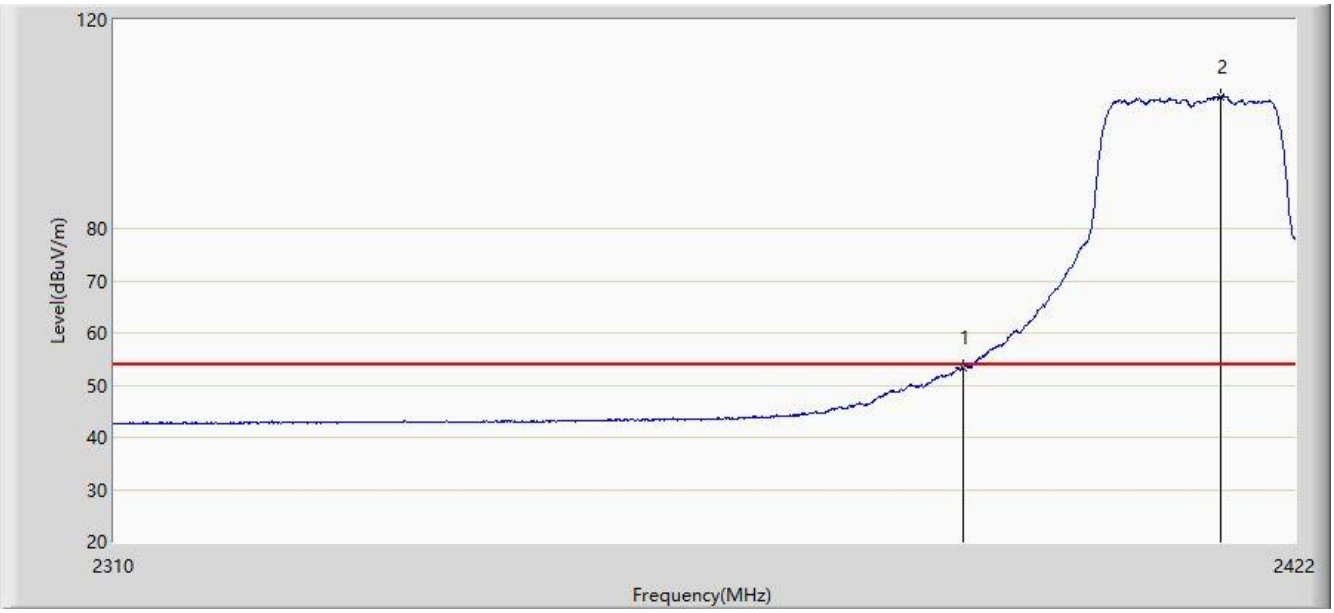


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.344	65.896	36.600	-8.104	74.000	29.296	PK
2			2390.000	65.676	36.381	-8.324	74.000	29.296	PK
3		*	2414.664	115.207	85.952	N/A	N/A	29.256	PK

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

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

Site: AC2	Time: 2020/08/01 - 14:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2412MHz (CDD Mode)	

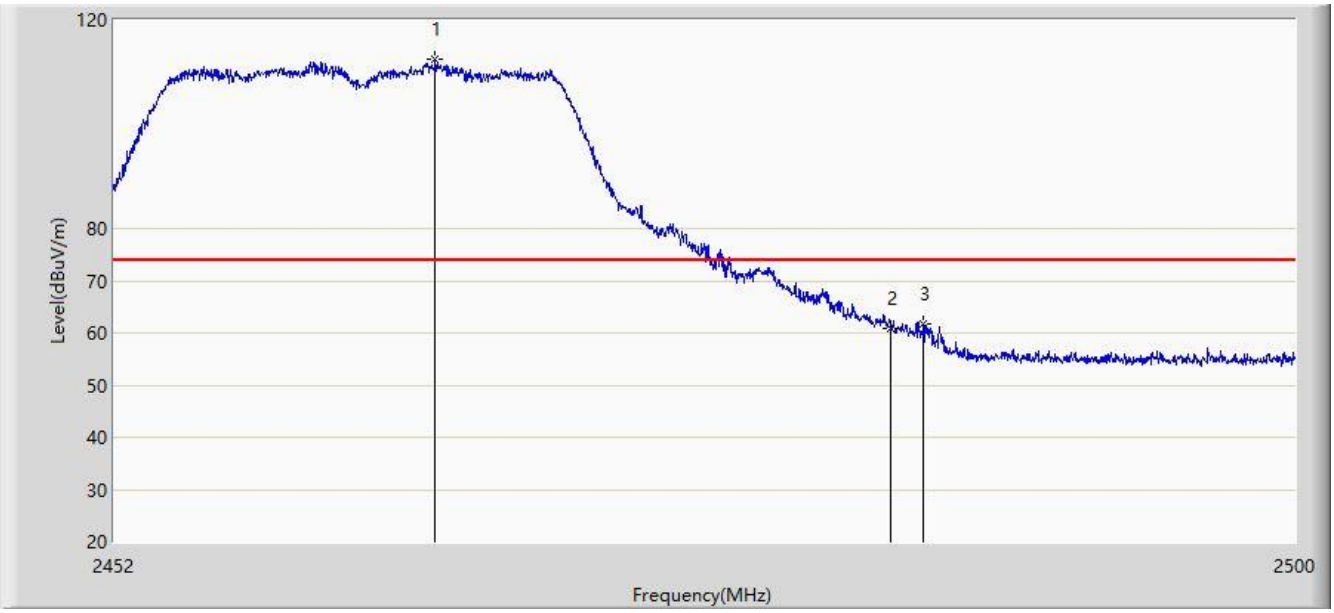


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.388	24.093	-0.612	54.000	29.296	AV
2		*	2414.776	105.279	76.024	N/A	N/A	29.255	AV

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

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

Site: AC2	Time: 2020/08/01 - 14:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2462MHz (CDD Mode)	

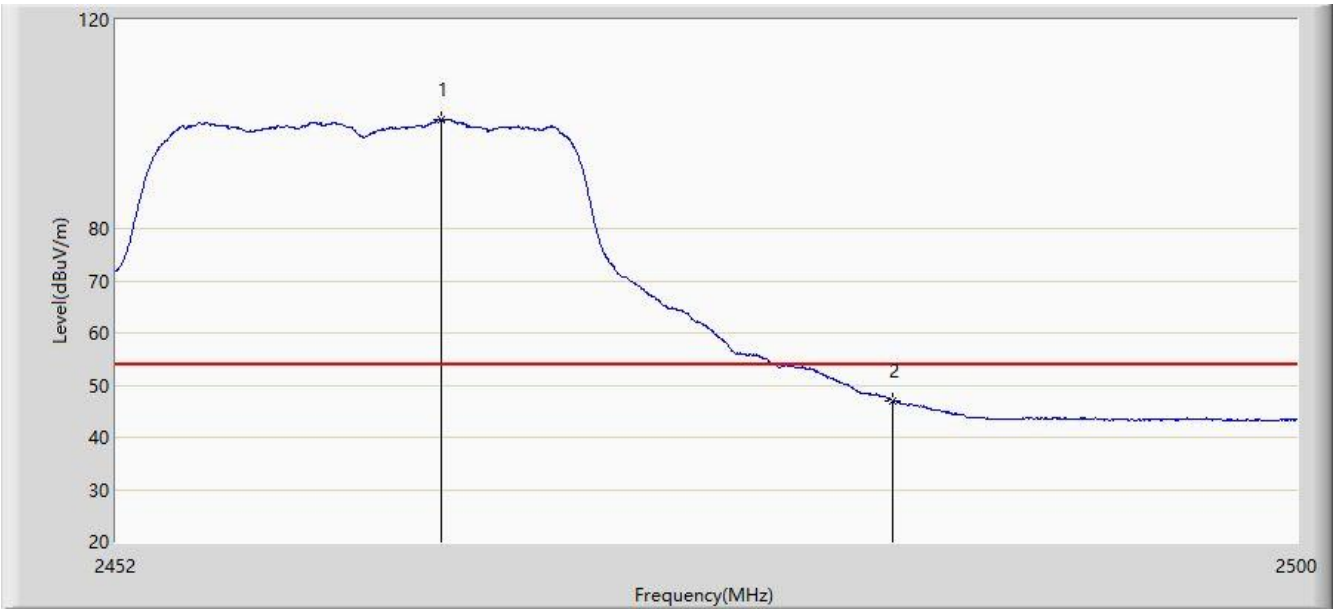


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.960	112.401	83.293	N/A	N/A	29.108	PK
2			2483.500	60.777	31.634	-13.223	74.000	29.143	PK
3			2484.808	61.881	32.736	-12.119	74.000	29.145	PK

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

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

Site: AC2	Time: 2020/08/01 - 14:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2462MHz (CDD Mode)	

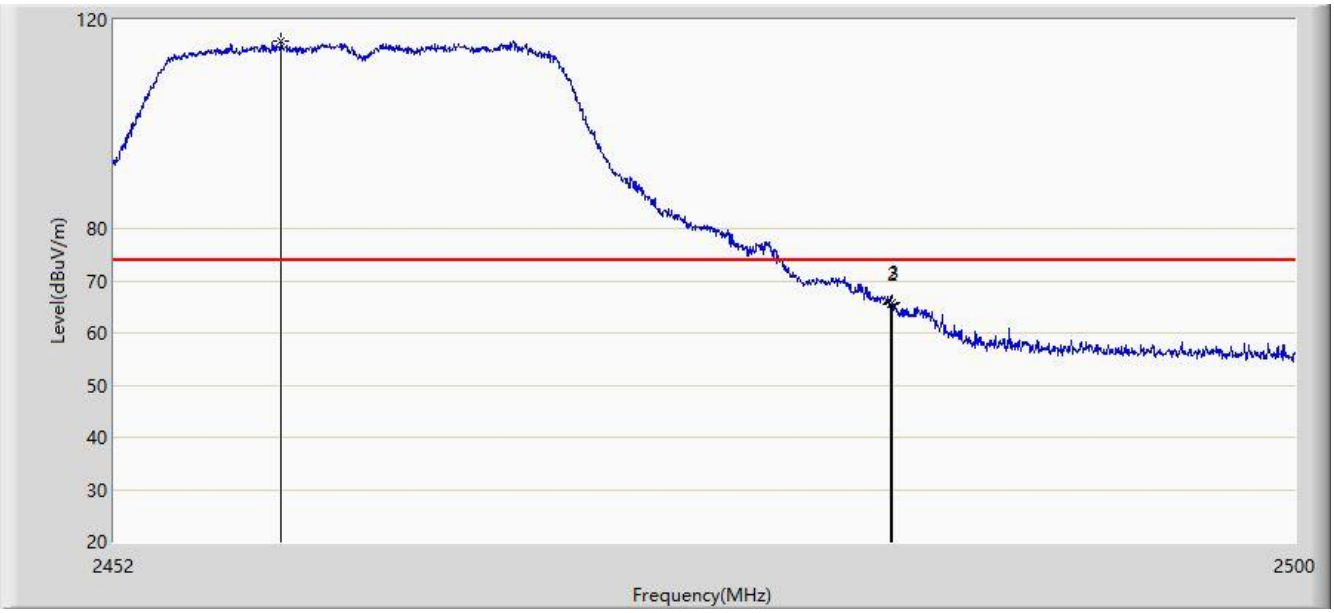


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2465.152	100.921	71.812	N/A	N/A	29.109	AV
2			2483.500	47.002	17.859	-6.998	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 14:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2462MHz (CDD Mode)	

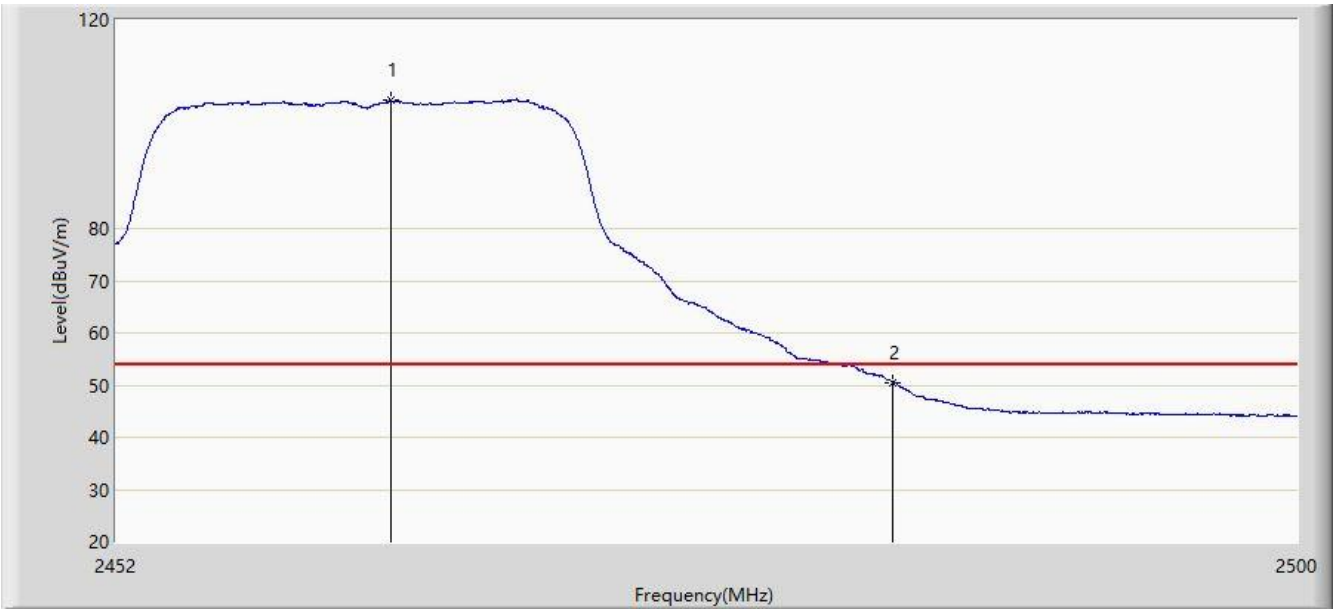


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.768	115.966	86.879	N/A	N/A	29.087	PK
2			2483.500	65.604	36.461	-8.396	74.000	29.143	PK
3			2483.512	65.827	36.684	-8.173	74.000	29.143	PK

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

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

Site: AC2	Time: 2020/08/01 - 14:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at Channel 2462MHz (CDD Mode)	

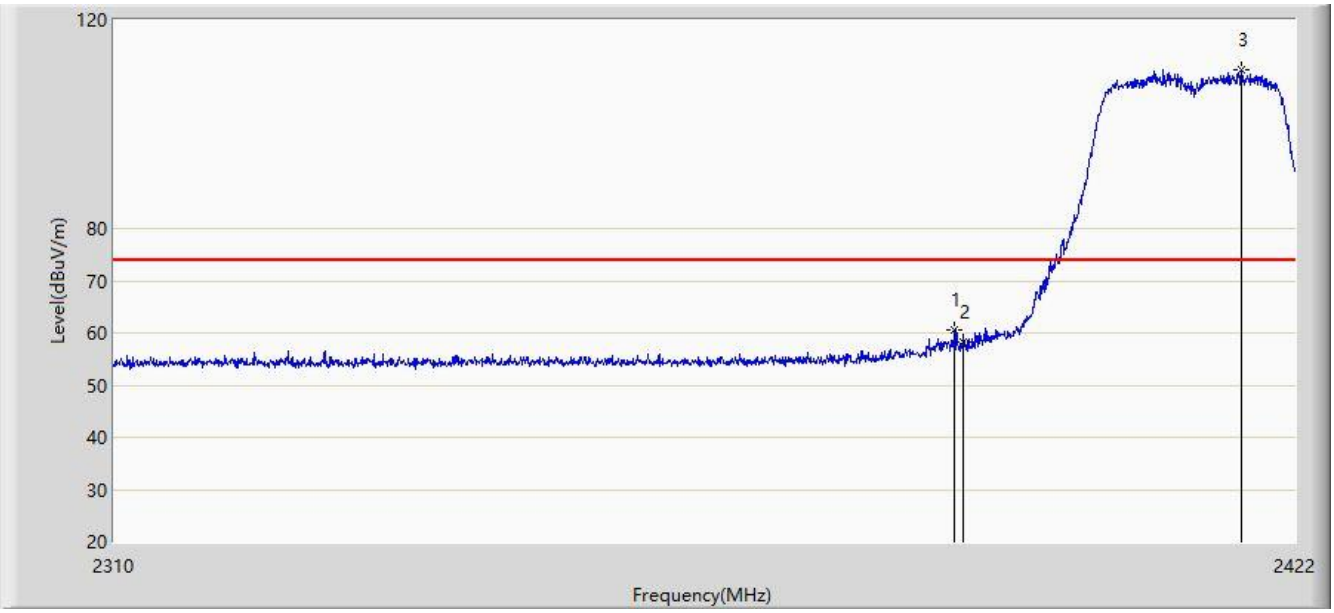


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.088	104.646	75.544	N/A	N/A	29.102	AV
2			2483.500	50.522	21.379	-3.478	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 14:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz (CDD Mode)	

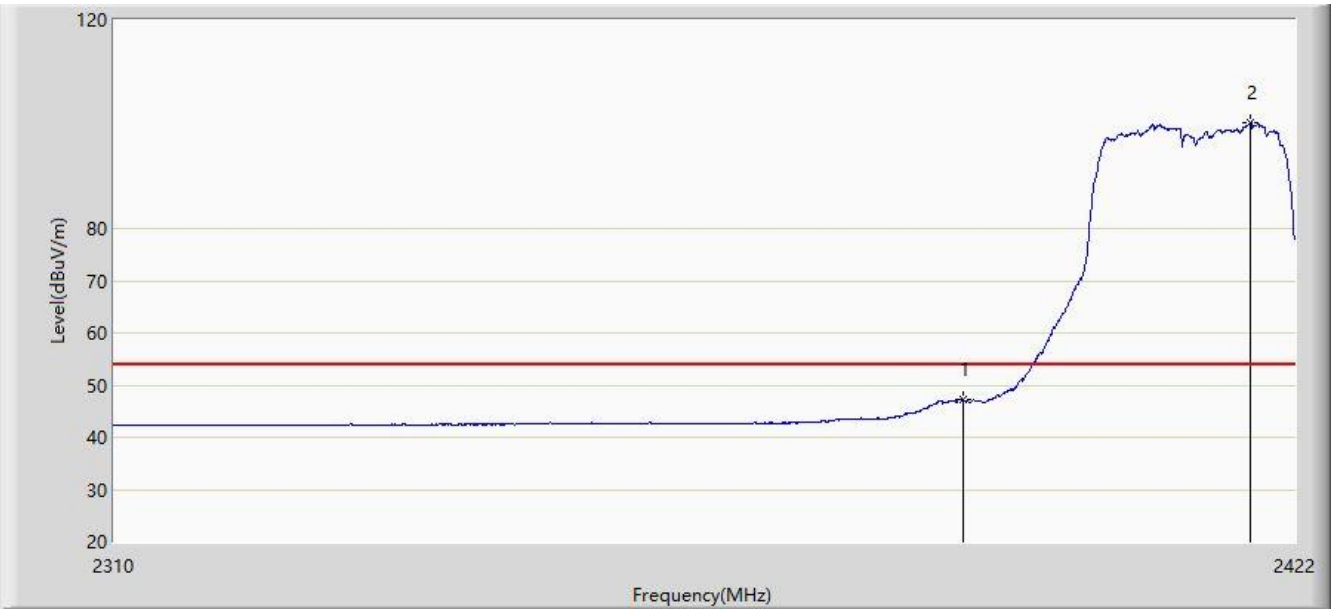


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.240	60.663	31.367	-13.337	74.000	29.296	PK
2			2390.000	58.177	28.882	-15.823	74.000	29.296	PK
3		*	2416.848	110.543	81.290	N/A	N/A	29.254	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz (CDD Mode)	

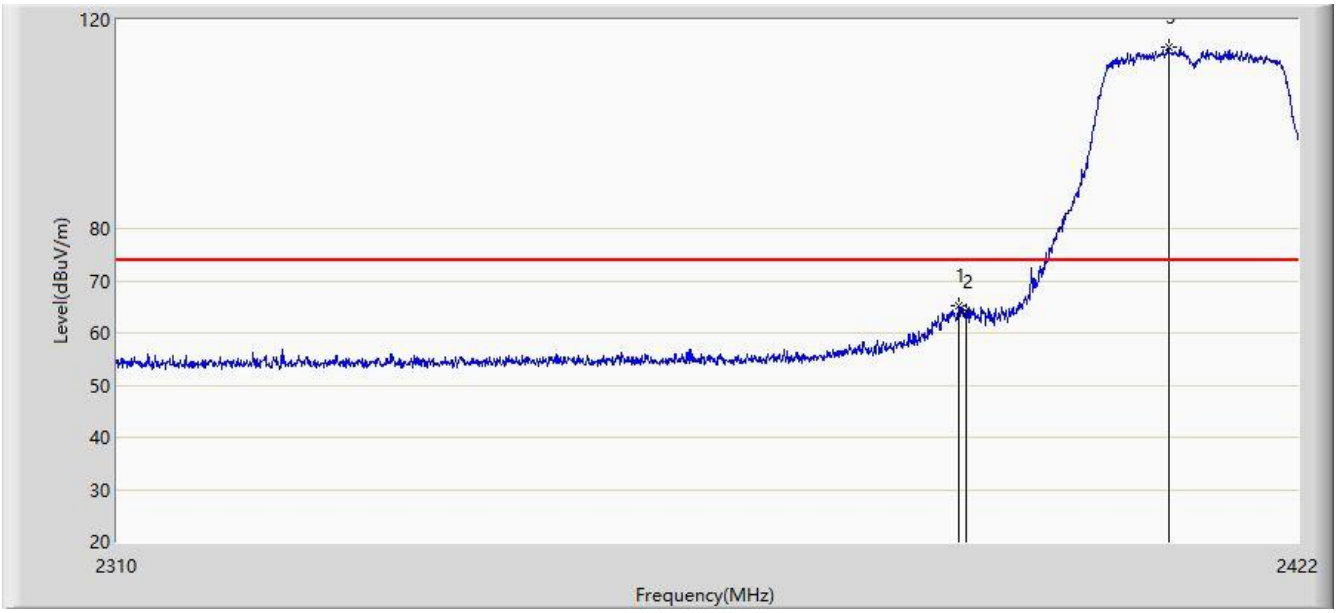


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.214	17.919	-6.786	54.000	29.296	AV
2		*	2417.744	100.291	71.037	N/A	N/A	29.254	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz (CDD Mode)	

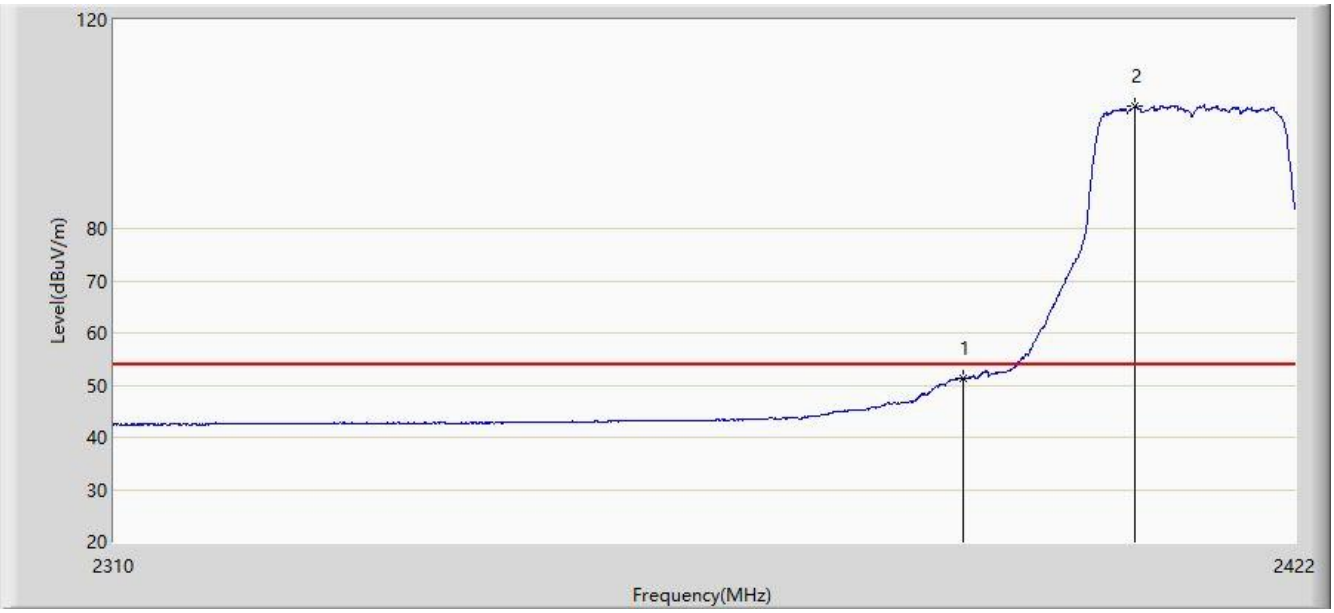


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.352	65.253	35.957	-8.747	74.000	29.296	PK
2			2390.000	64.174	34.879	-9.826	74.000	29.296	PK
3		*	2409.512	114.813	85.546	N/A	N/A	29.268	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz (CDD Mode)	

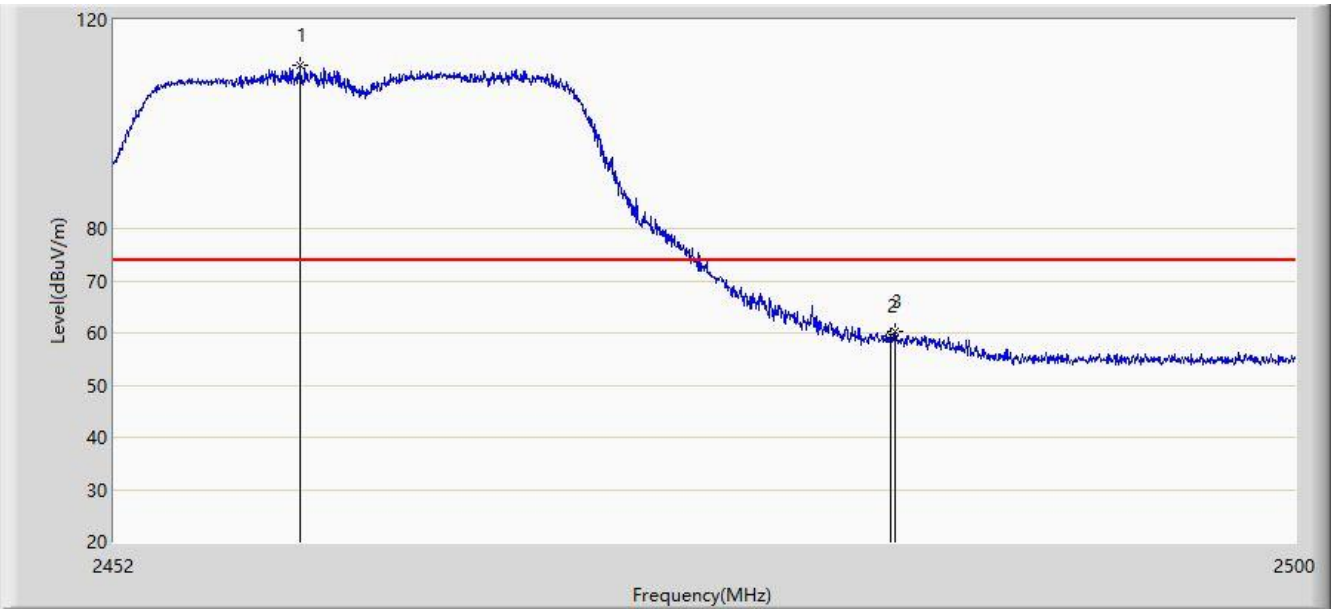


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.433	22.138	-2.567	54.000	29.296	AV
2		*	2406.488	103.410	74.139	N/A	N/A	29.271	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz (CDD Mode)	

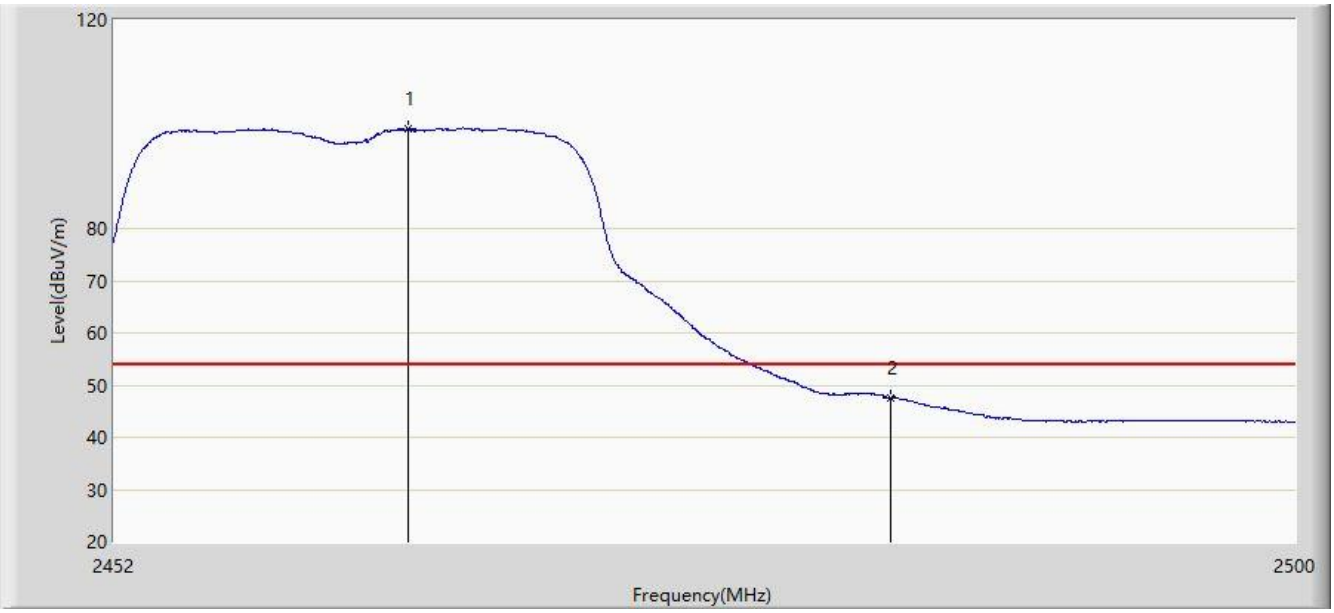


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.488	111.215	82.126	N/A	N/A	29.089	PK
2			2483.500	59.474	30.331	-14.526	74.000	29.143	PK
3			2483.632	60.317	31.173	-13.683	74.000	29.144	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz (CDD Mode)	

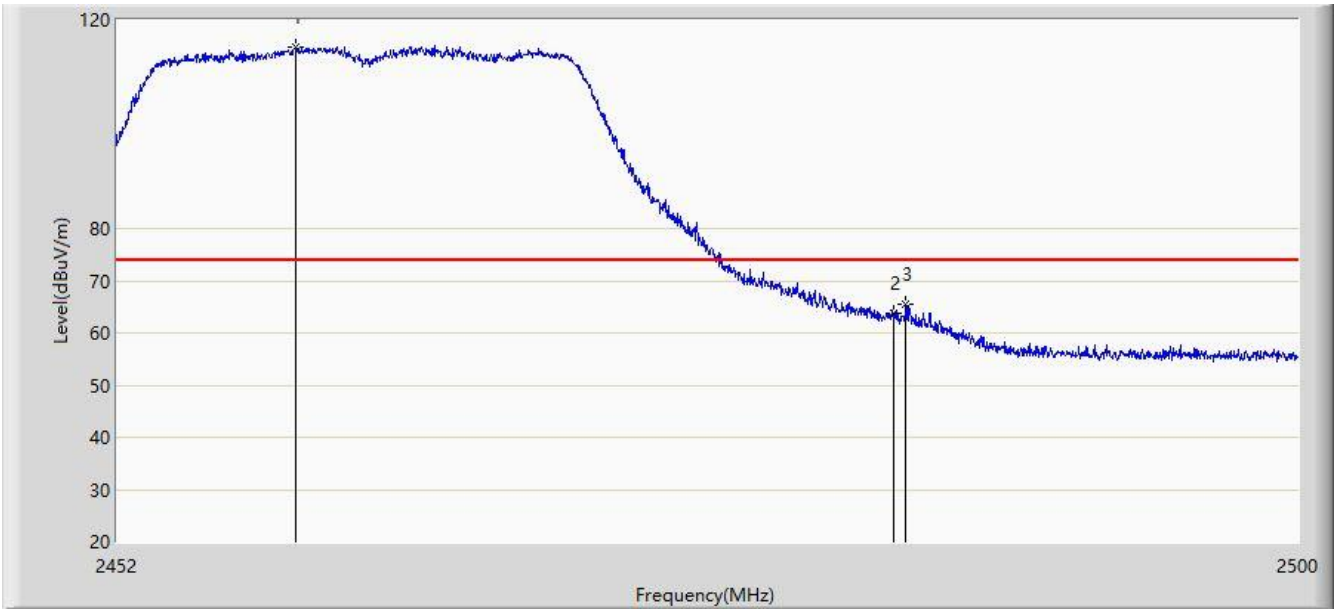


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.856	99.050	69.946	N/A	N/A	29.104	AV
2			2483.500	47.650	18.507	-6.350	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz (CDD Mode)	

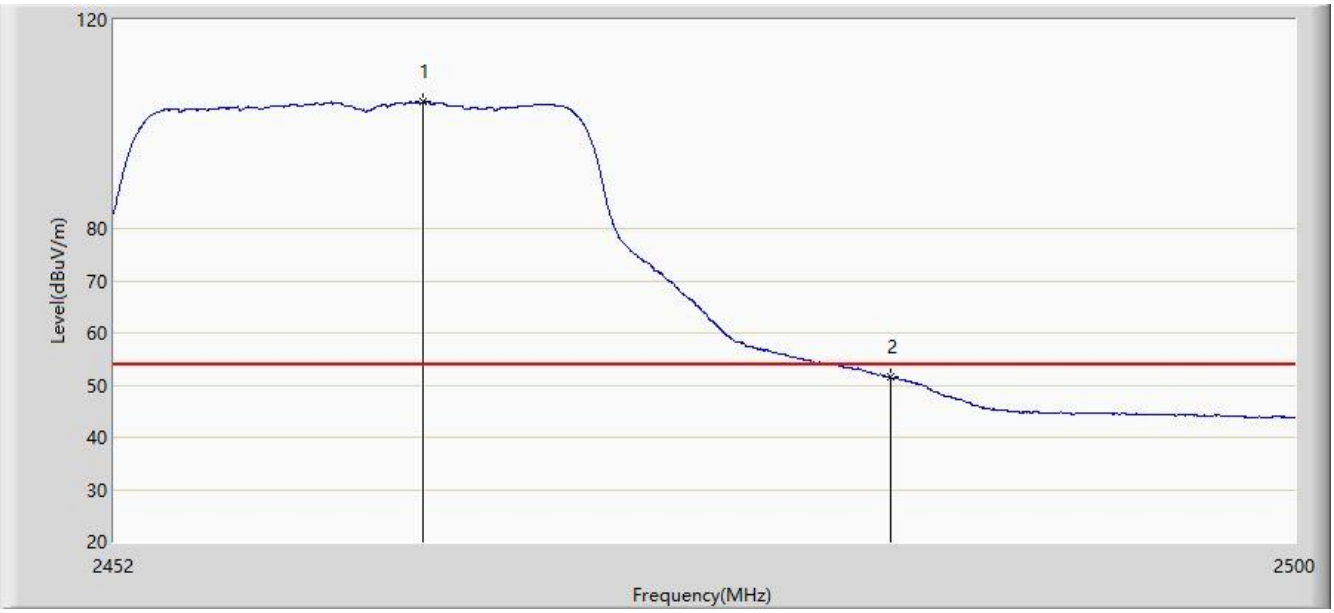


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.200	114.879	85.791	N/A	N/A	29.088	PK
2			2483.500	63.709	34.566	-10.291	74.000	29.143	PK
3			2483.968	65.445	36.301	-8.555	74.000	29.144	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz (CDD Mode)	

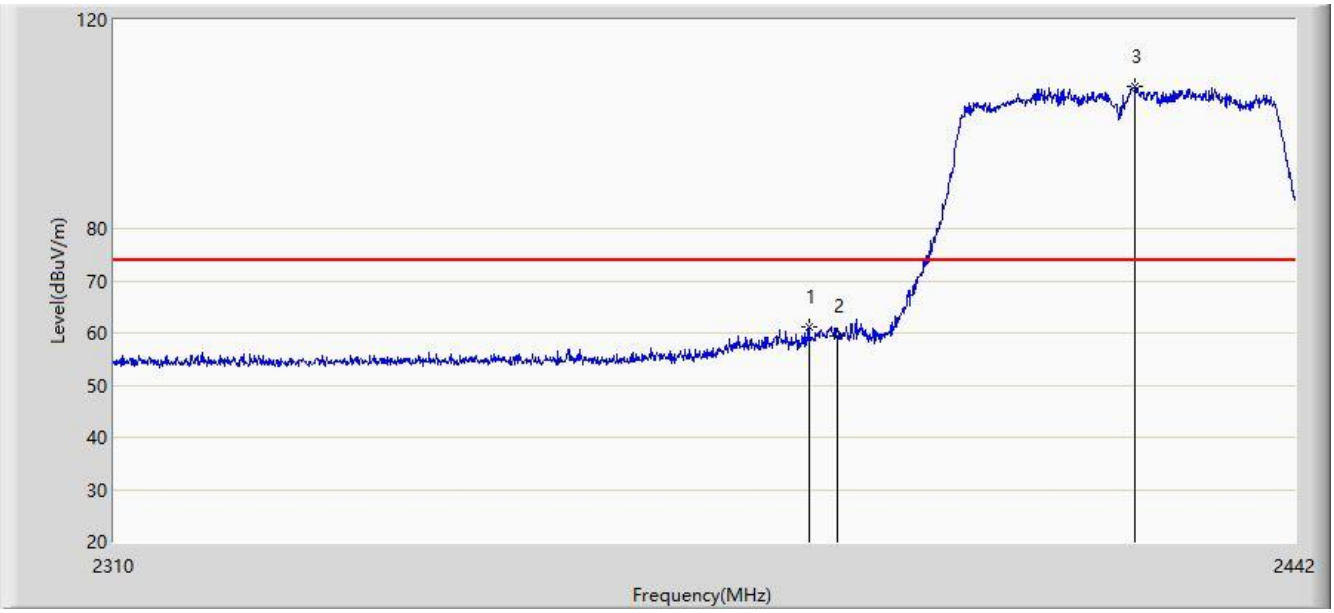


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.504	104.320	75.214	N/A	N/A	29.106	AV
2			2483.500	51.461	22.318	-2.539	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2422MHz (CDD Mode)	

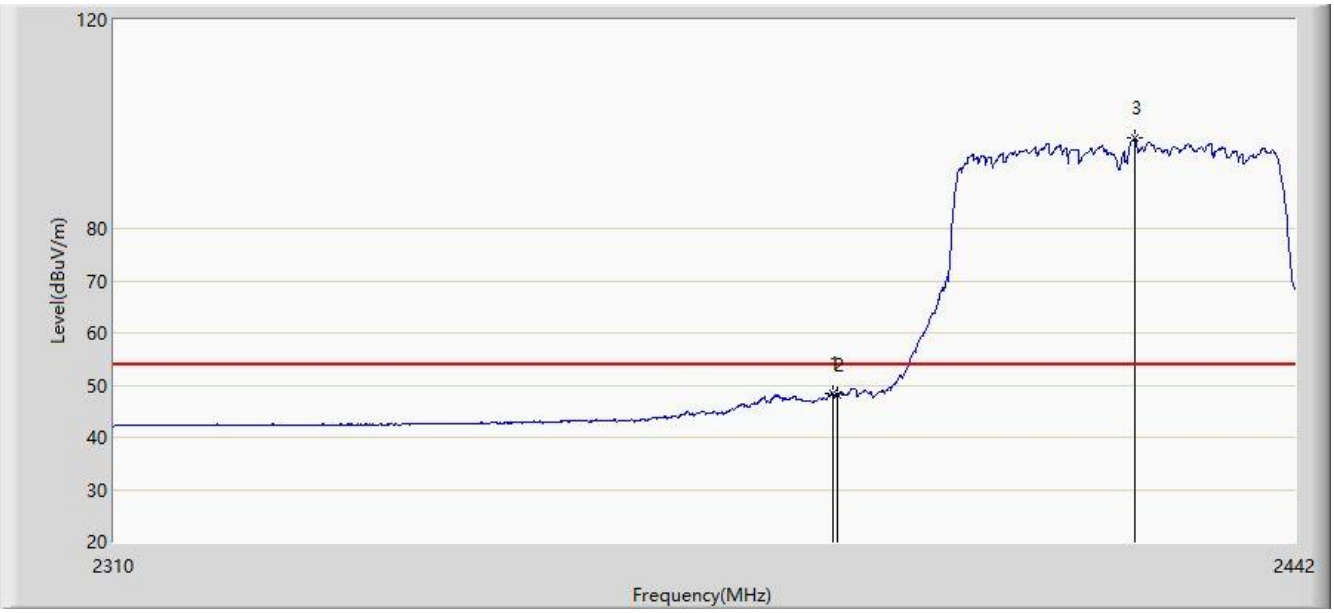


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.824	61.139	31.841	-12.861	74.000	29.297	PK
2			2390.000	59.433	30.138	-14.567	74.000	29.296	PK
3		*	2423.718	107.216	77.959	N/A	N/A	29.257	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2422MHz (CDD Mode)	

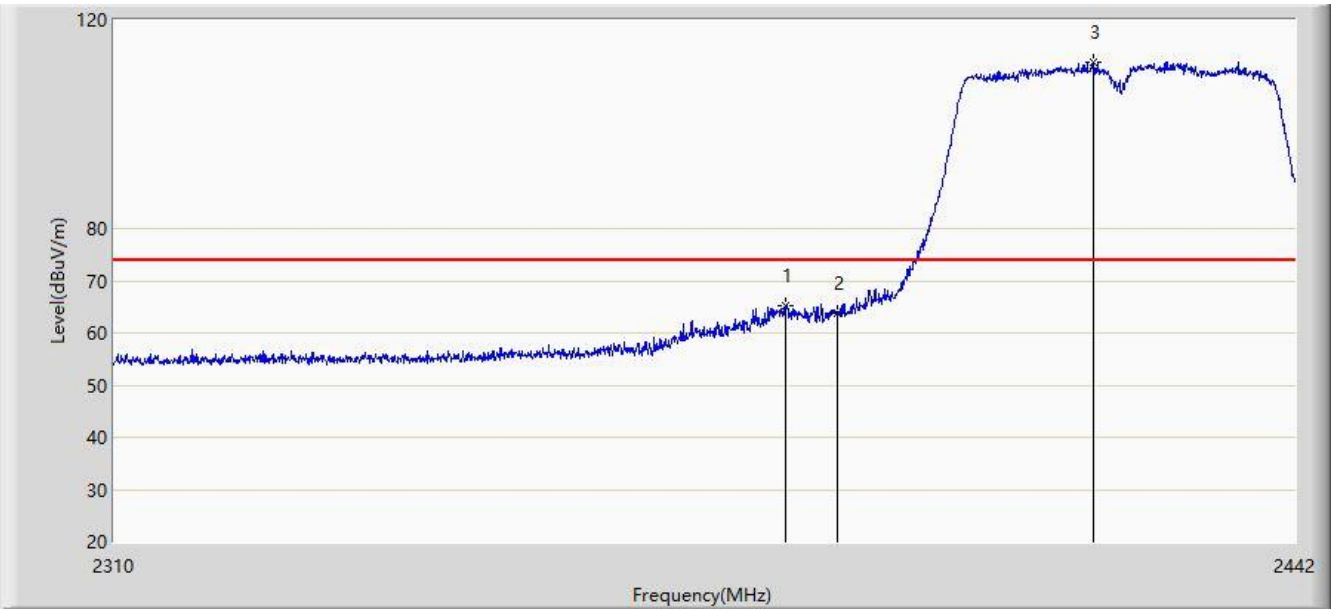


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.596	48.473	19.178	-5.527	54.000	29.296	AV
2			2390.000	47.984	18.689	-6.016	54.000	29.296	AV
3		*	2423.652	97.260	68.003	N/A	N/A	29.257	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2422MHz (CDD Mode)	

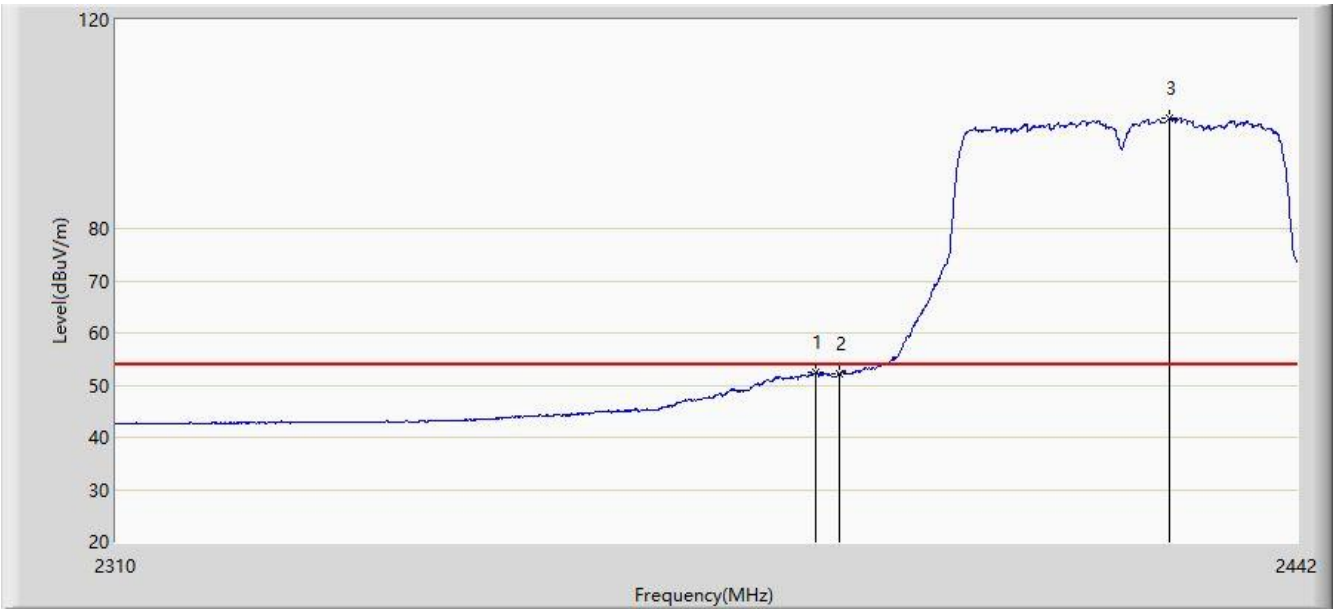


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.118	65.215	35.915	-8.785	74.000	29.300	PK
2			2390.000	63.642	34.347	-10.358	74.000	29.296	PK
3		*	2418.900	111.838	82.584	N/A	N/A	29.255	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2422MHz (CDD Mode)	

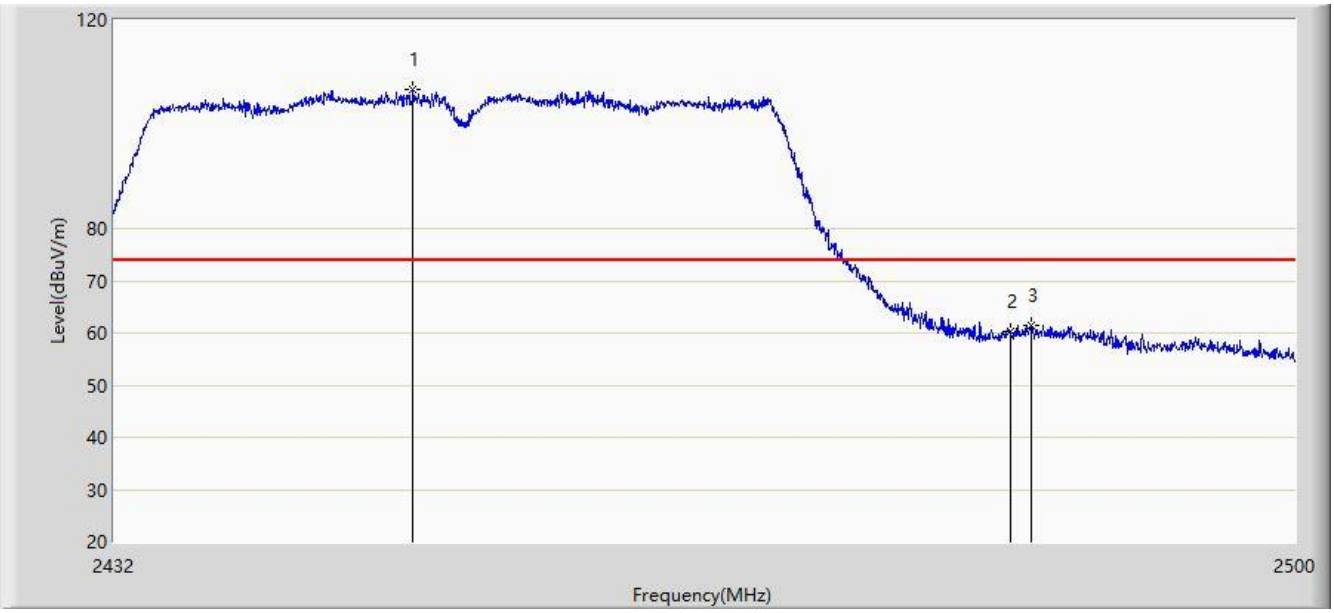


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.418	52.558	23.261	-1.442	54.000	29.297	AV
2			2390.000	52.135	22.840	-1.865	54.000	29.296	AV
3		*	2427.480	101.220	71.961	N/A	N/A	29.260	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2452MHz (CDD Mode)	

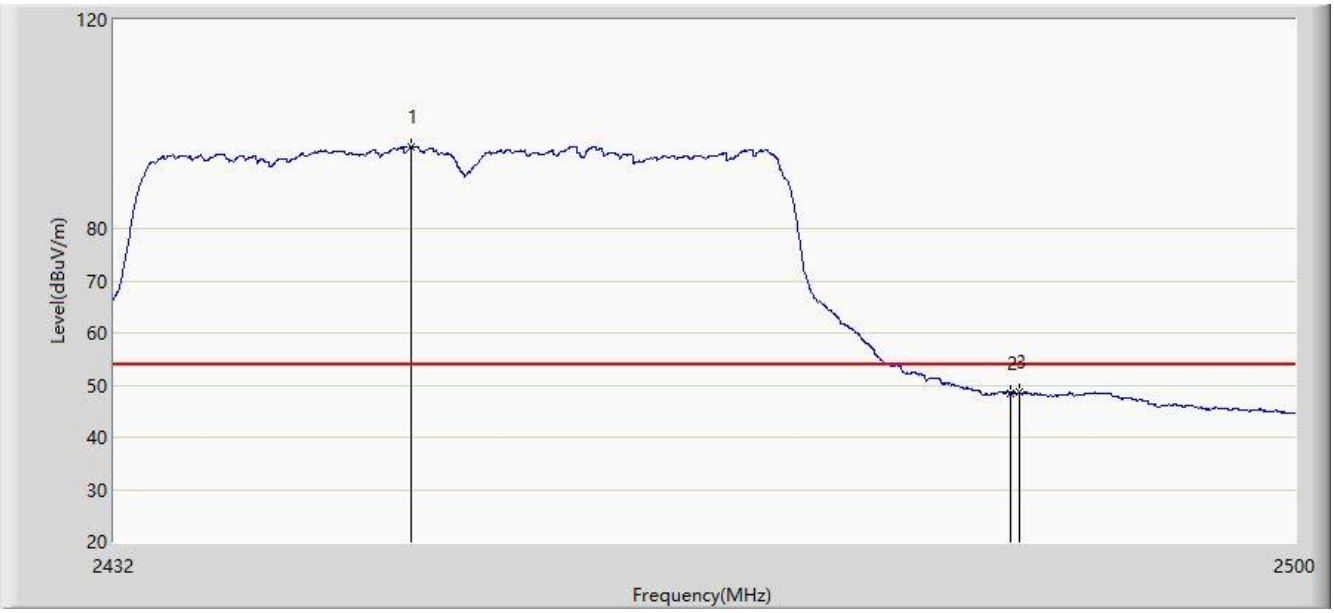


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.068	106.526	77.440	N/A	N/A	29.086	PK
2			2483.500	60.259	31.116	-13.741	74.000	29.143	PK
3			2484.666	61.560	32.415	-12.440	74.000	29.145	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2452MHz (CDD Mode)	

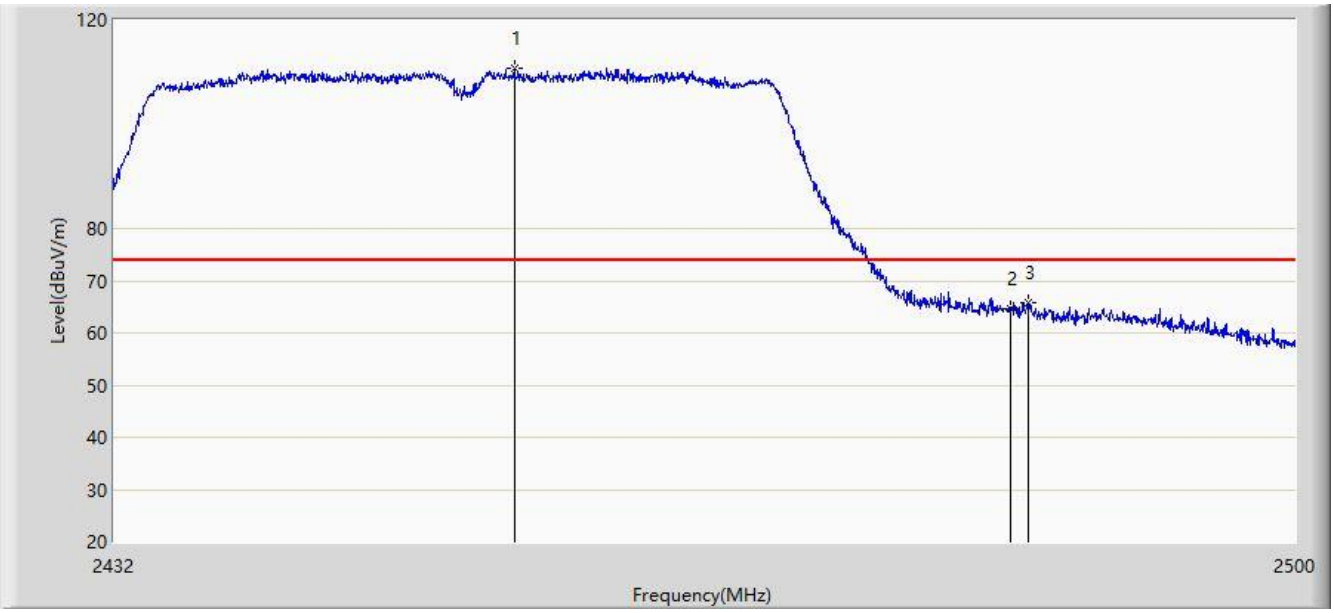


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2448.932	95.678	66.591	N/A	N/A	29.087	AV
2			2483.500	48.549	19.406	-5.451	54.000	29.143	AV
3			2483.986	48.565	19.421	-5.435	54.000	29.144	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2452MHz (CDD Mode)	

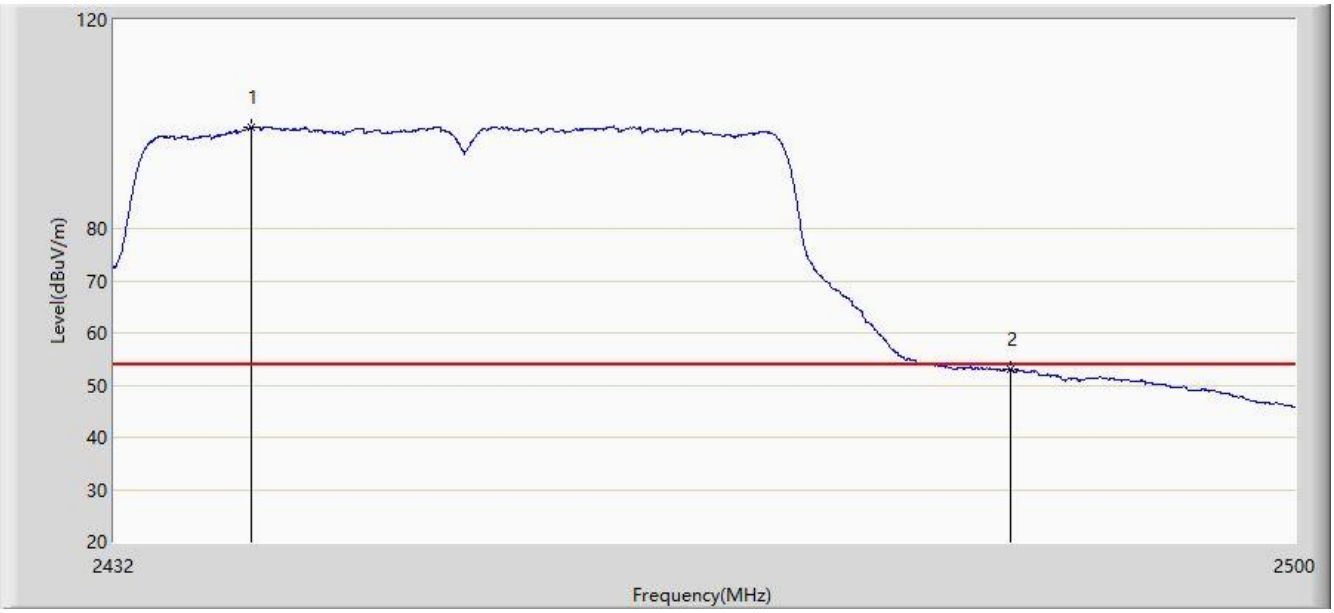


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2454.848	110.599	81.526	N/A	N/A	29.073	PK
2			2483.500	64.735	35.592	-9.265	74.000	29.143	PK
3			2484.462	65.834	36.689	-8.166	74.000	29.145	PK

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

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

Site: AC2	Time: 2020/08/01 - 15:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n40 at Channel 2452MHz (CDD Mode)	

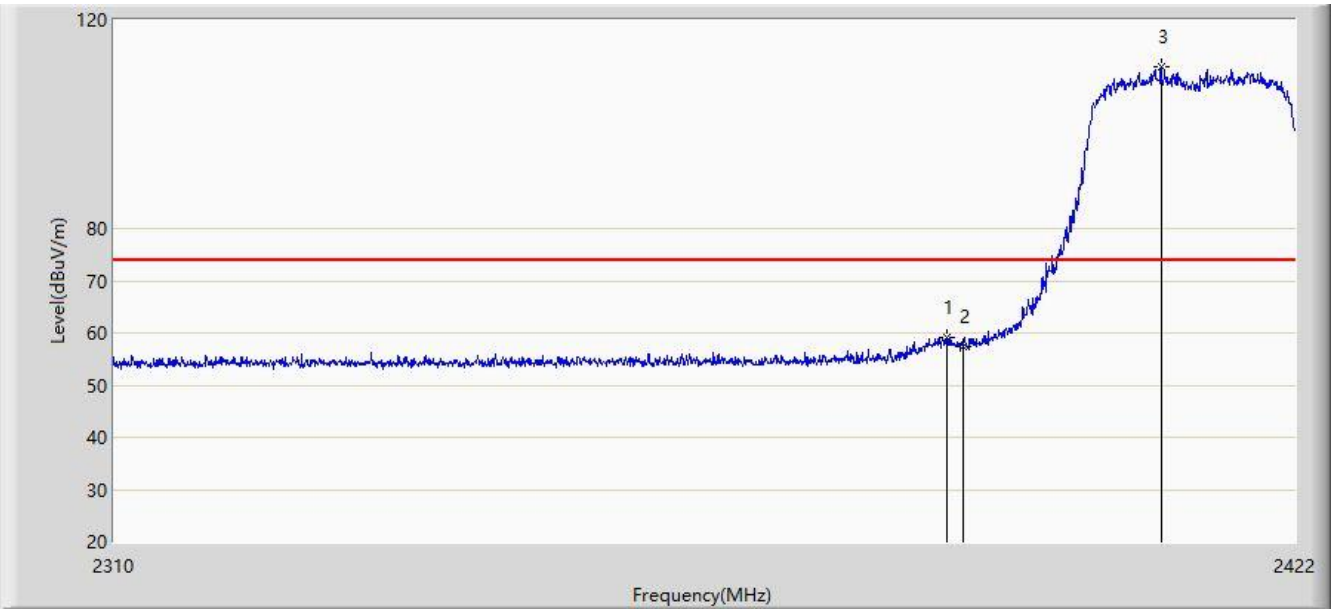


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2439.820	99.407	70.216	N/A	N/A	29.191	AV
2			2483.500	53.027	23.884	-0.973	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 15:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2412MHz (CDD Mode)	

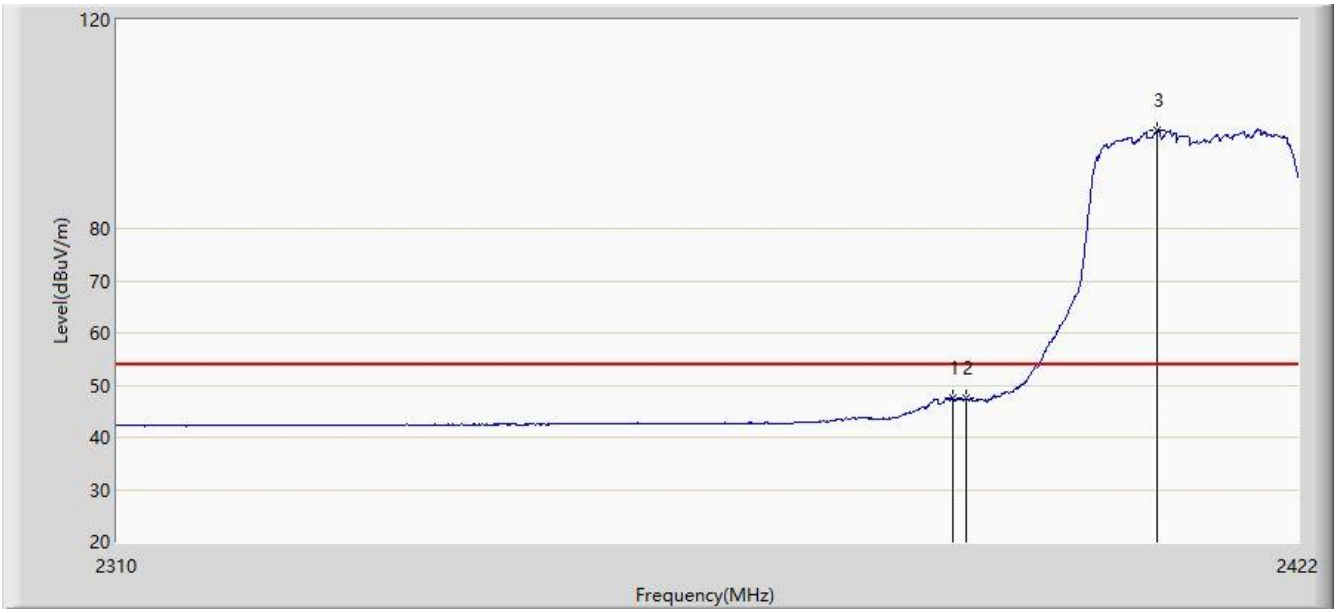


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.512	59.235	29.939	-14.765	74.000	29.296	PK
2			2390.000	57.520	28.225	-16.480	74.000	29.296	PK
3		*	2409.064	111.070	81.802	N/A	N/A	29.268	PK

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

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

Site: AC2	Time: 2020/08/01 - 16:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2412MHz (CDD Mode)	

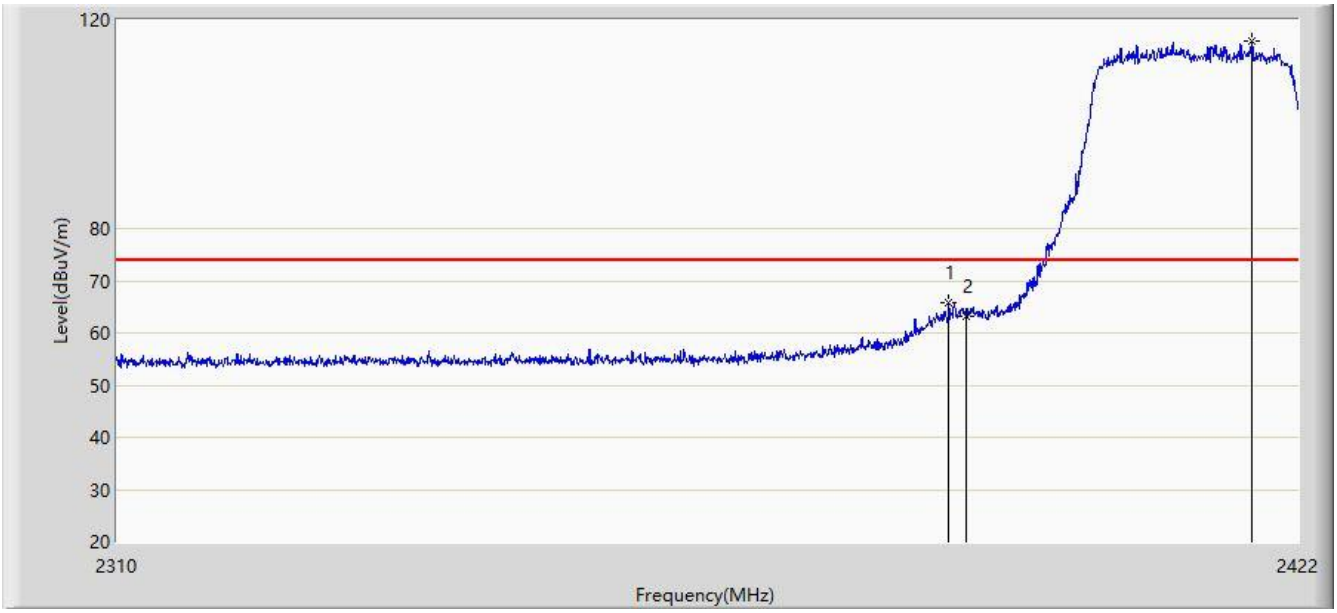


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.736	47.558	18.262	-6.442	54.000	29.297	AV
2			2390.000	47.479	18.184	-6.521	54.000	29.296	AV
3		*	2408.448	98.739	69.470	N/A	N/A	29.268	AV

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

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

Site: AC2	Time: 2020/08/01 - 16:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2412MHz (CDD Mode)	

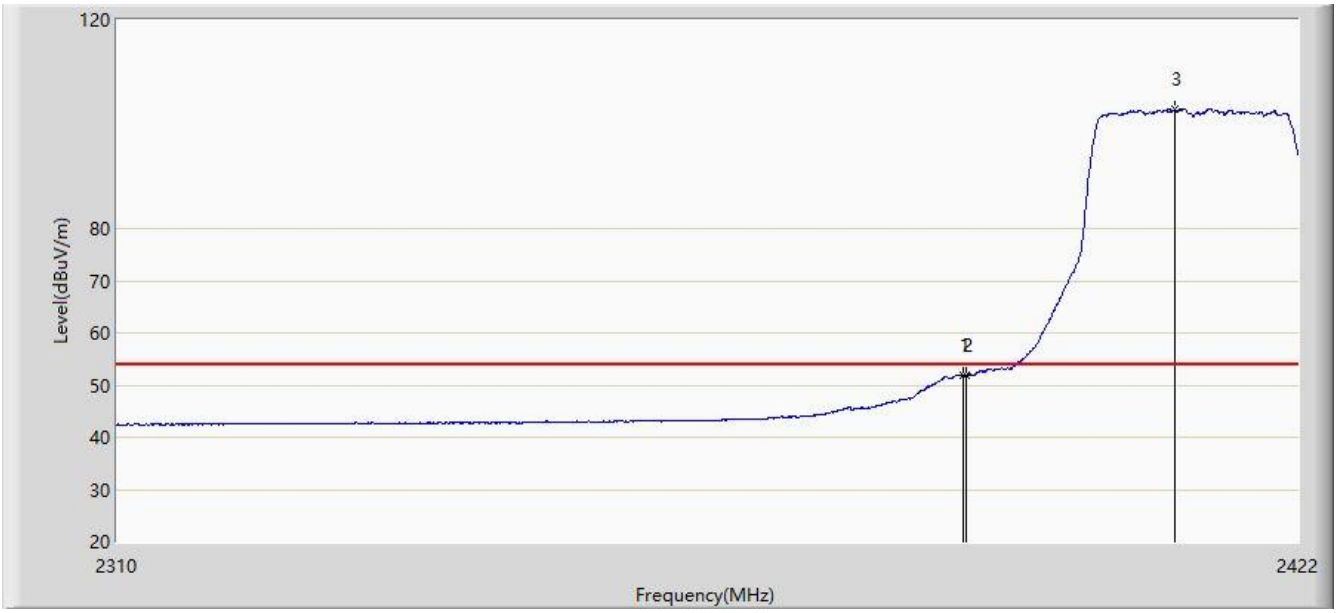


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.344	65.832	36.536	-8.168	74.000	29.296	PK
2			2390.000	63.171	33.876	-10.829	74.000	29.296	PK
3		*	2417.576	115.916	86.662	N/A	N/A	29.254	PK

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

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

Site: AC2	Time: 2020/08/01 - 16:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2412MHz (CDD Mode)	

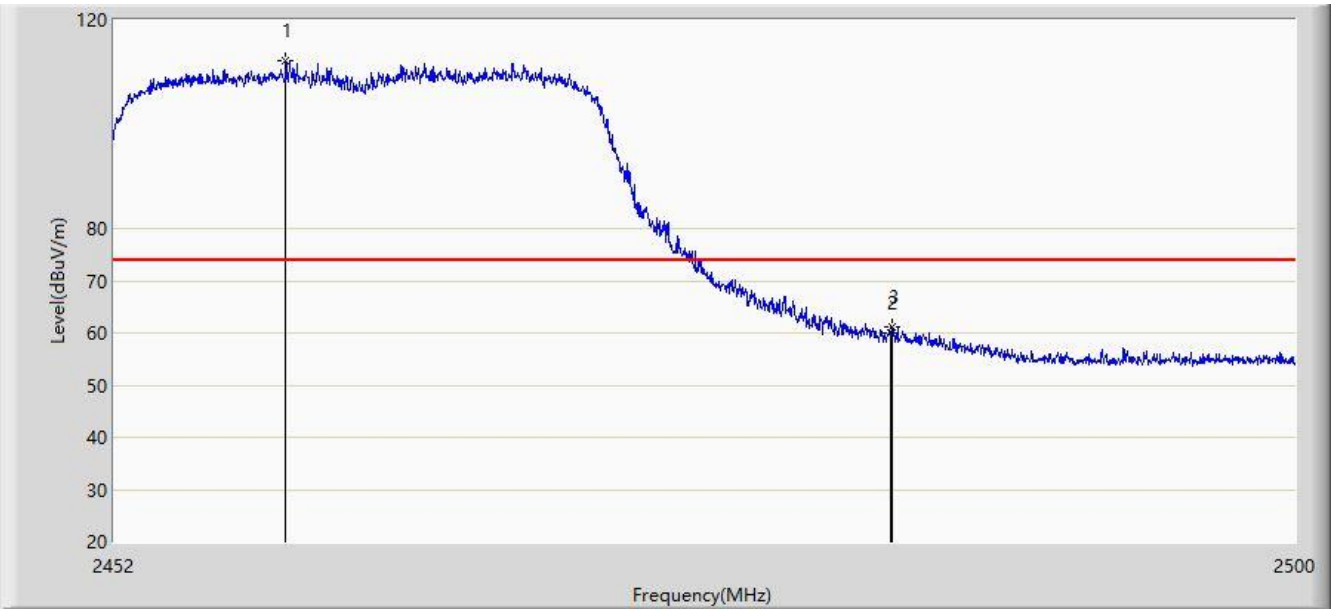


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.800	51.973	22.678	-2.027	54.000	29.296	AV
2			2390.000	51.934	22.639	-2.066	54.000	29.296	AV
3		*	2410.072	102.766	73.499	N/A	N/A	29.267	AV

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

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

Site: AC2	Time: 2020/08/01 - 16:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2462MHz (CDD Mode)	

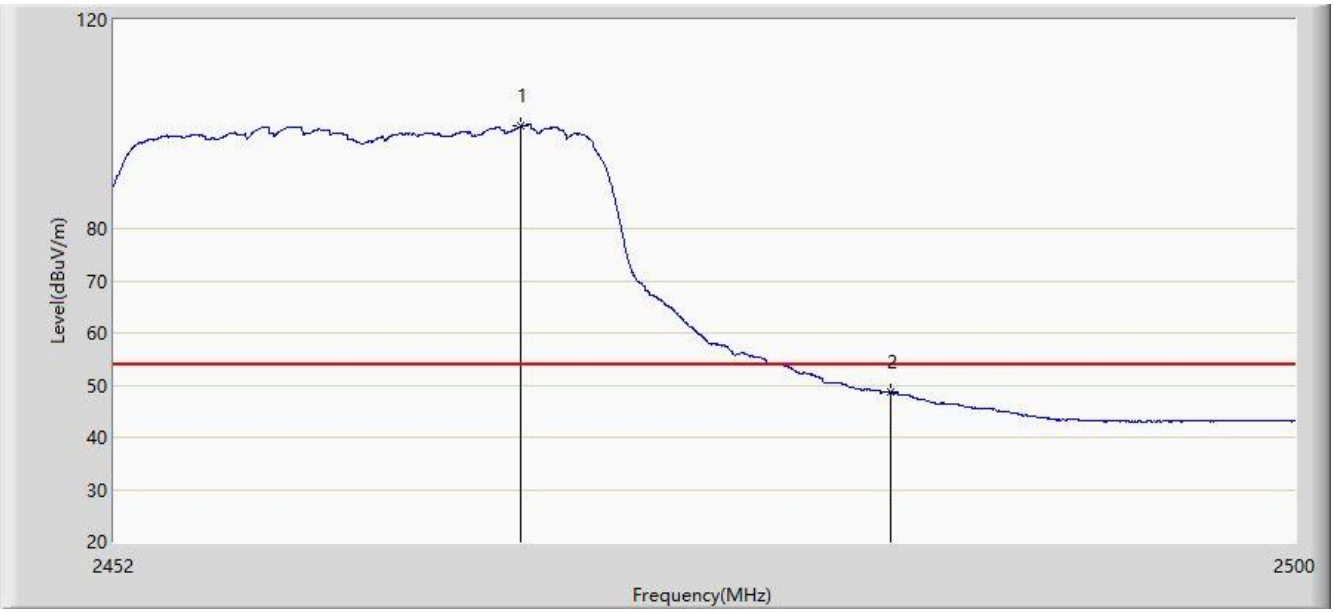


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.936	112.118	83.031	N/A	N/A	29.087	PK
2			2483.500	59.938	30.795	-14.062	74.000	29.143	PK
3			2483.512	61.052	31.909	-12.948	74.000	29.143	PK

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

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

Site: AC2	Time: 2020/08/01 - 16:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2462MHz (CDD Mode)	

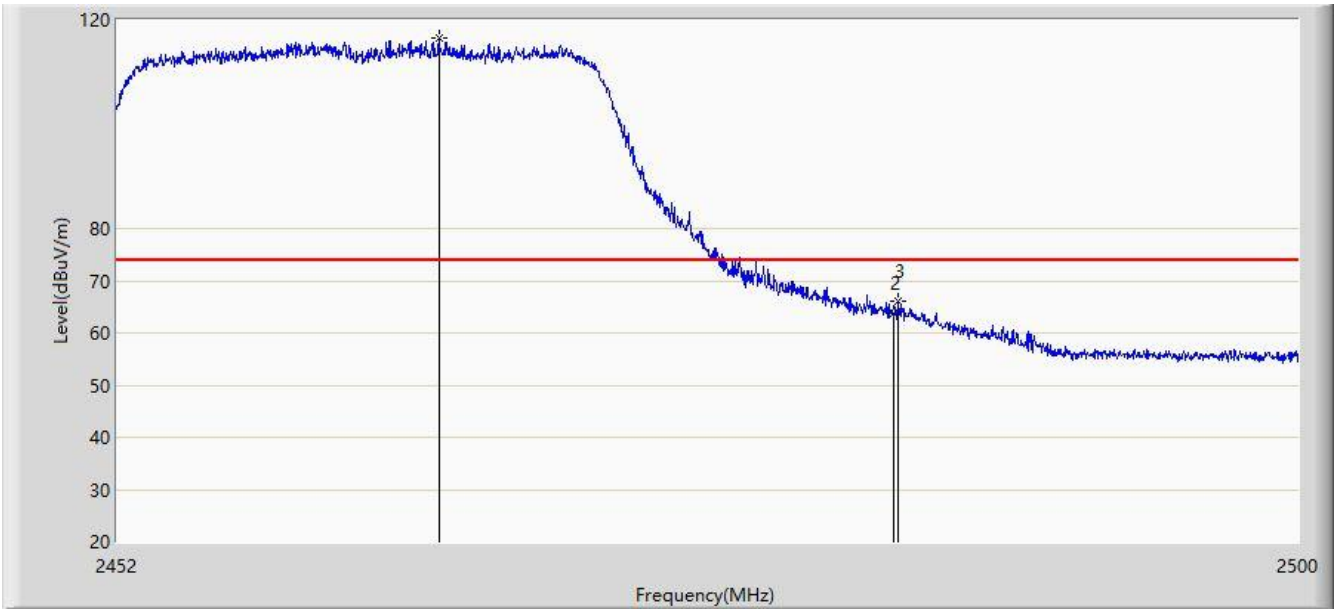


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.464	99.661	70.541	N/A	N/A	29.120	AV
2			2483.500	48.605	19.462	-5.395	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 16:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2462MHz (CDD Mode)	

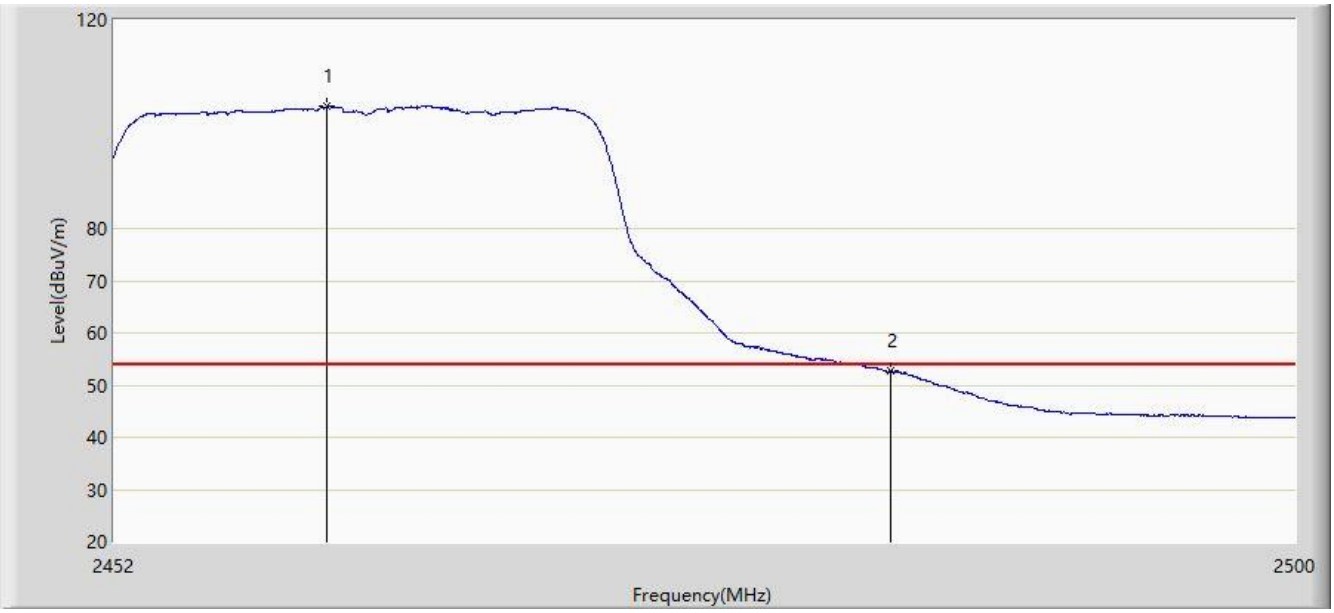


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2465.008	116.587	87.479	N/A	N/A	29.108	PK
2			2483.500	63.806	34.663	-10.194	74.000	29.143	PK
3			2483.656	66.128	36.984	-7.872	74.000	29.144	PK

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

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

Site: AC2	Time: 2020/08/01 - 16:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax20 at Channel 2462MHz (CDD Mode)	

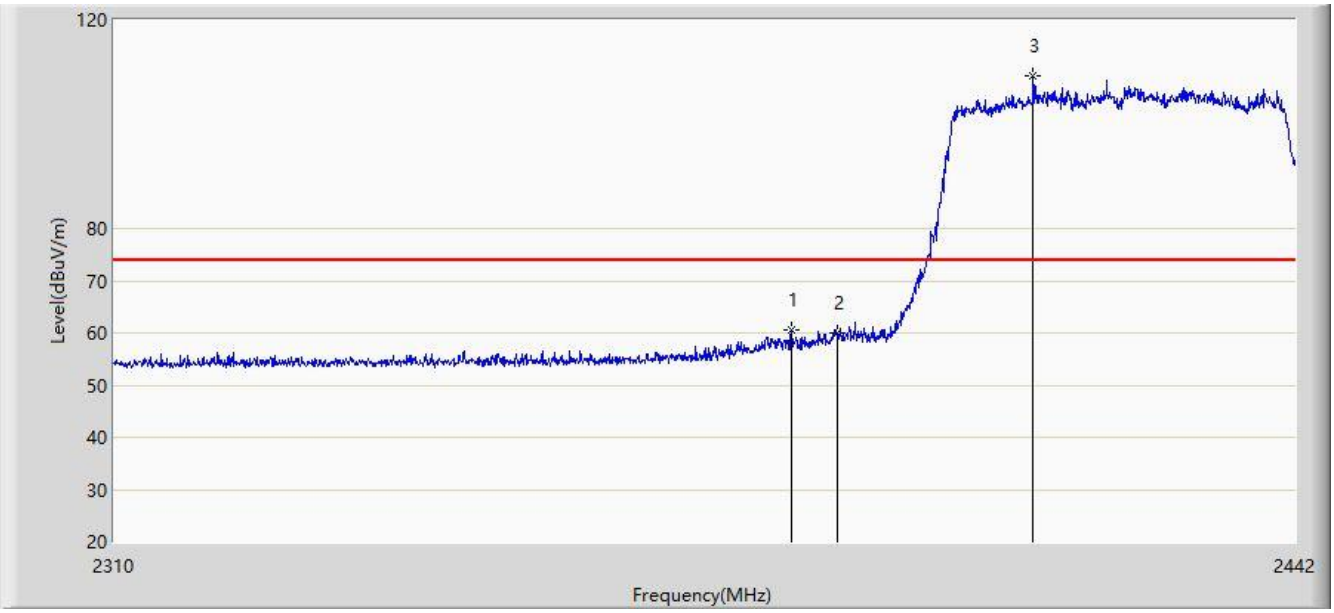


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.592	103.416	74.323	N/A	N/A	29.093	AV
2			2483.500	52.689	23.546	-1.311	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/08/01 - 16:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2422MHz (CDD Mode)	

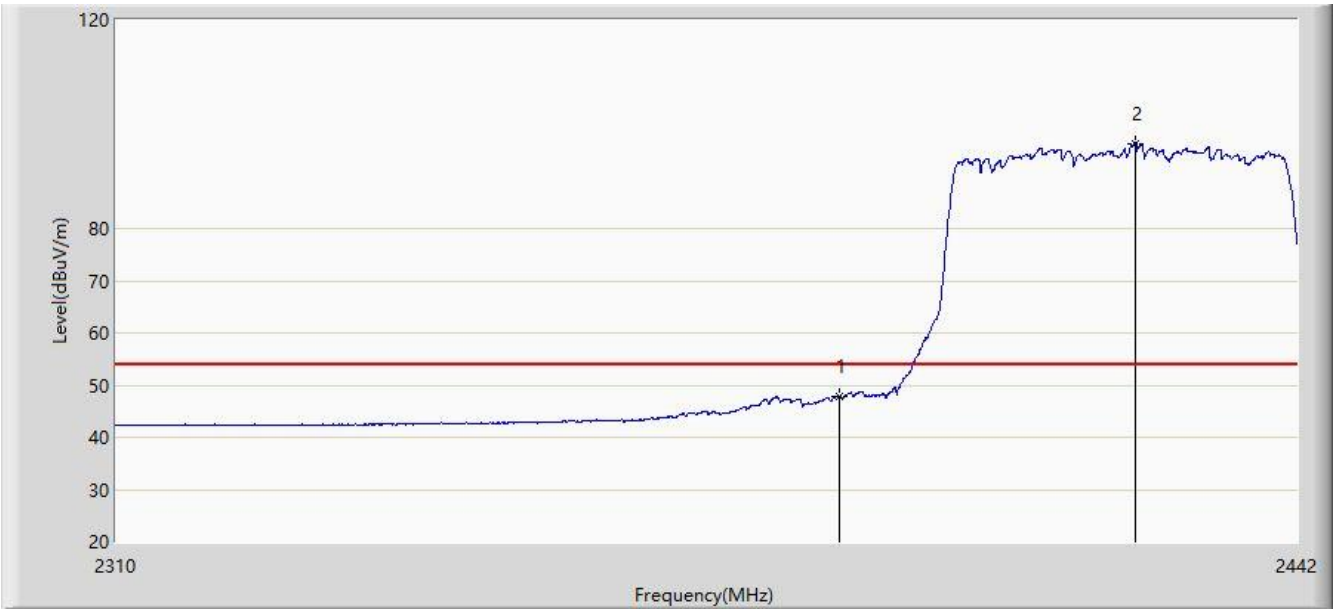


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.910	60.573	31.274	-13.427	74.000	29.299	PK
2			2390.000	59.933	30.638	-14.067	74.000	29.296	PK
3		*	2412.168	109.243	79.980	N/A	N/A	29.262	PK

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

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

Site: AC2	Time: 2020/08/01 - 17:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2422MHz (CDD Mode)	

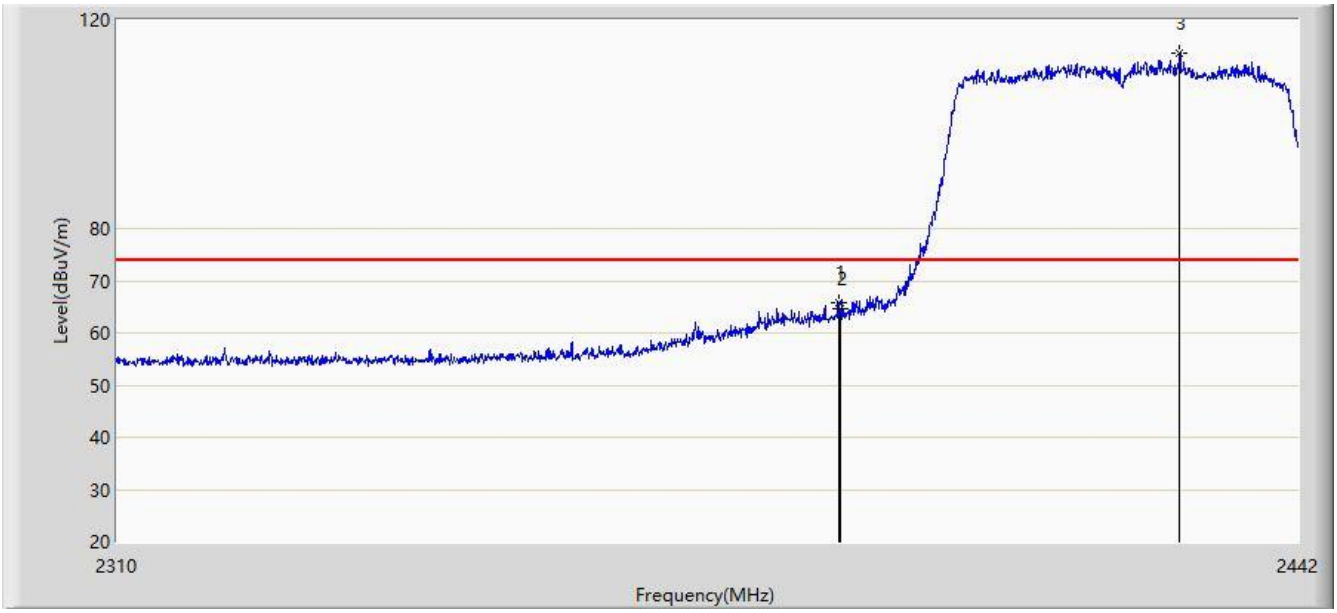


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.800	18.505	-6.200	54.000	29.296	AV
2		*	2423.454	96.266	67.009	N/A	N/A	29.257	AV

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

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

Site: AC2	Time: 2020/08/01 - 17:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2422MHz (CDD Mode)	

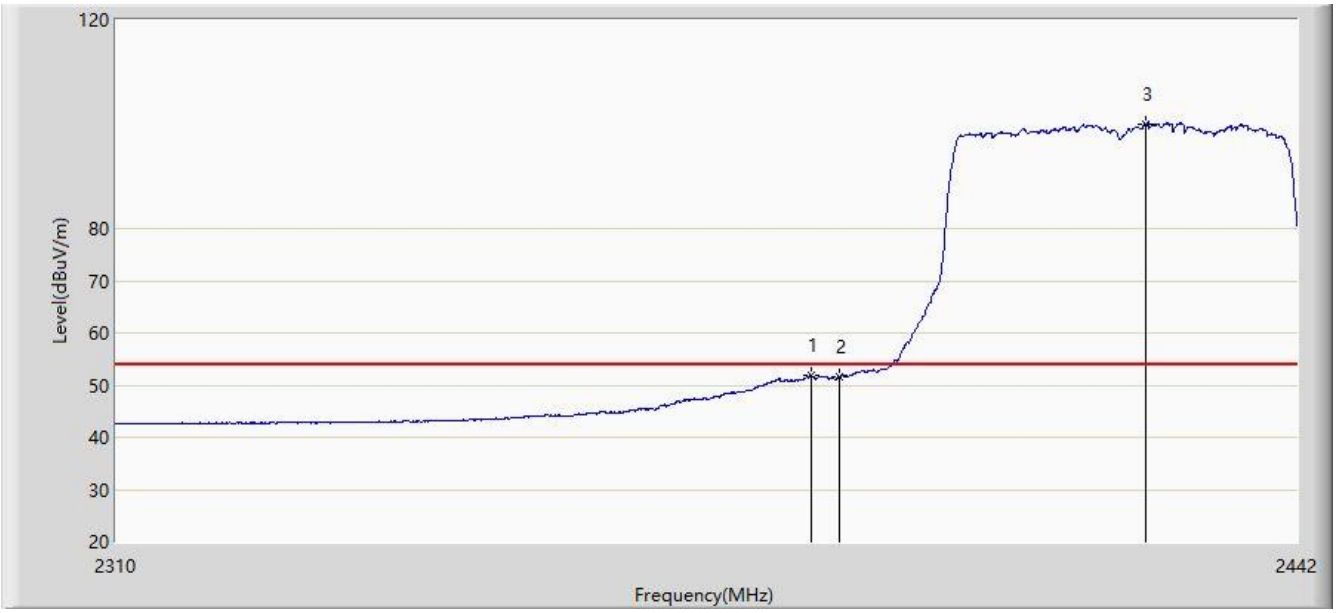


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.794	65.861	36.566	-8.139	74.000	29.296	PK
2			2390.000	64.514	35.219	-9.486	74.000	29.296	PK
3		*	2428.470	113.591	84.330	N/A	N/A	29.260	PK

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

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

Site: AC2	Time: 2020/08/01 - 17:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2422MHz (CDD Mode)	

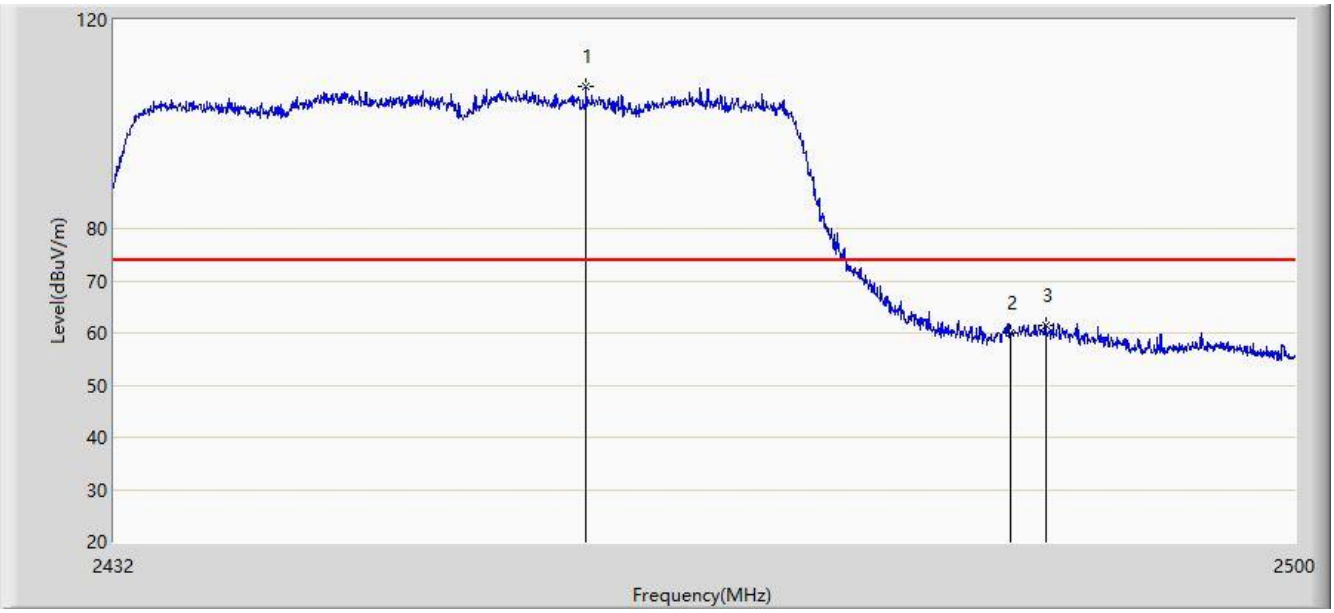


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.824	51.801	22.503	-2.199	54.000	29.297	AV
2			2390.000	51.599	22.304	-2.401	54.000	29.296	AV
3		*	2424.708	100.006	70.748	N/A	N/A	29.257	AV

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

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

Site: AC2	Time: 2020/08/01 - 17:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2452MHz (CDD Mode)	

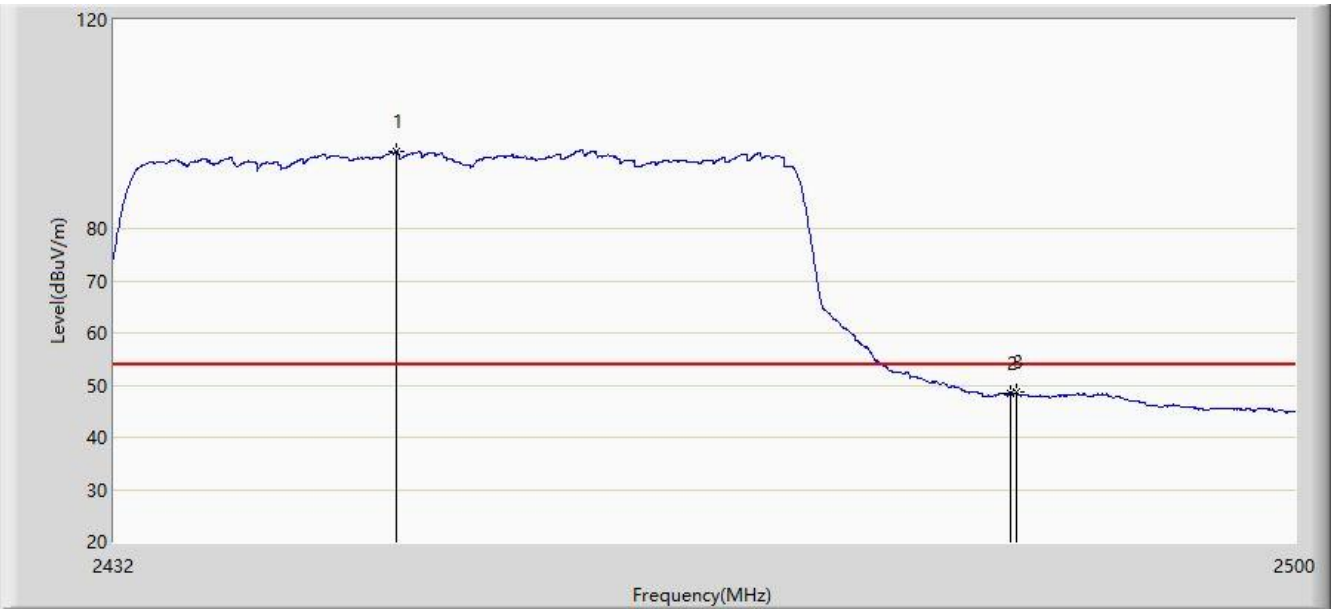


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.962	107.342	78.255	N/A	N/A	29.087	PK
2			2483.500	59.973	30.830	-14.027	74.000	29.143	PK
3			2485.516	61.546	32.400	-12.454	74.000	29.146	PK

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

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

Site: AC2	Time: 2020/08/01 - 17:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2452MHz (CDD Mode)	

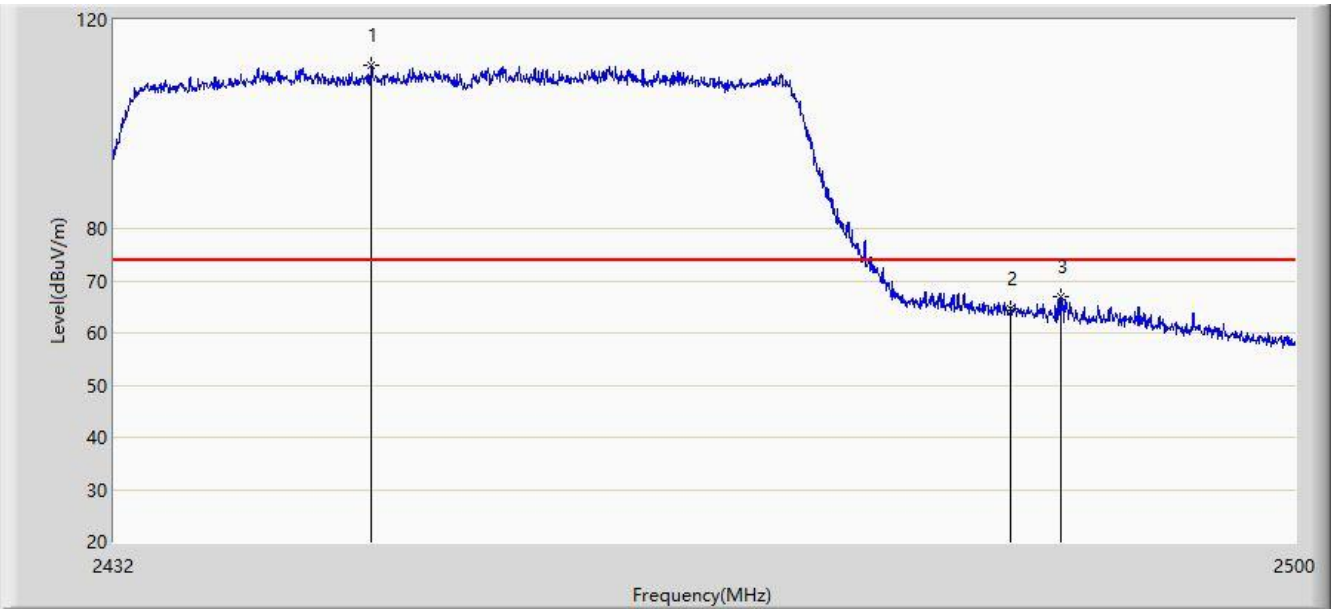


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2448.082	94.712	65.617	N/A	N/A	29.095	AV
2			2483.500	48.518	19.375	-5.482	54.000	29.143	AV
3			2483.782	48.555	19.411	-5.445	54.000	29.144	AV

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

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

Site: AC2	Time: 2020/08/01 - 17:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2452MHz (CDD Mode)	

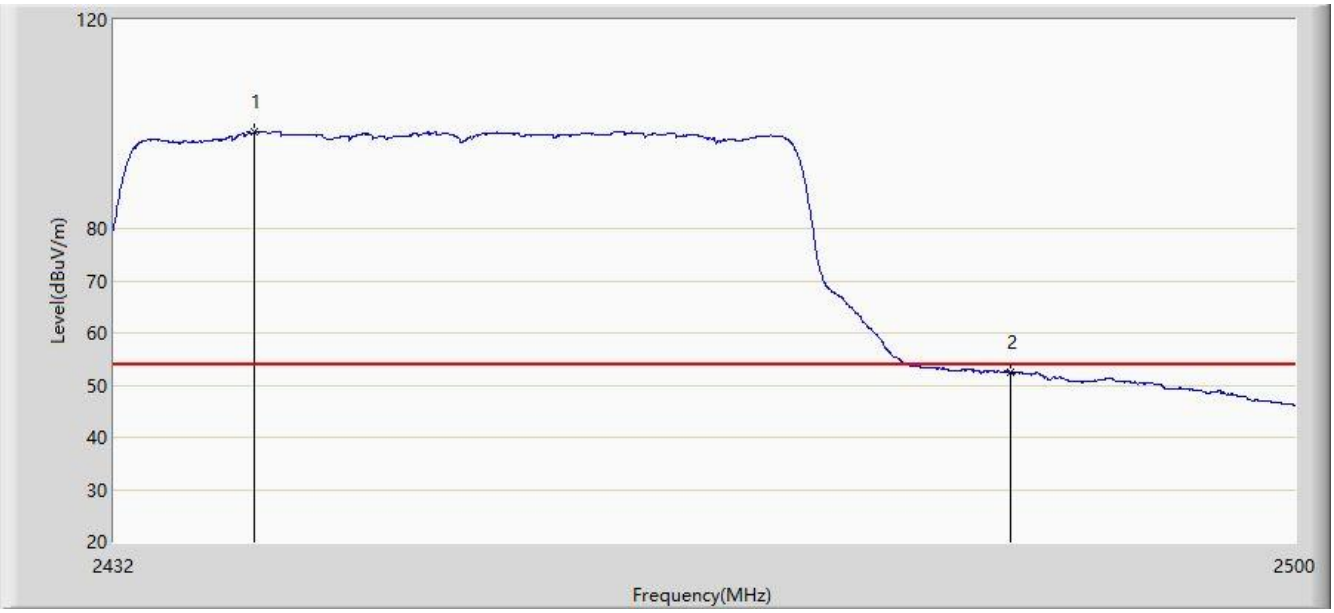


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2446.688	111.228	82.120	N/A	N/A	29.108	PK
2			2483.500	64.778	35.635	-9.222	74.000	29.143	PK
3			2486.366	66.831	37.684	-7.169	74.000	29.147	PK

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

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

Site: AC2	Time: 2020/08/01 - 17:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Antony Yang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax40 at Channel 2452MHz (CDD Mode)	



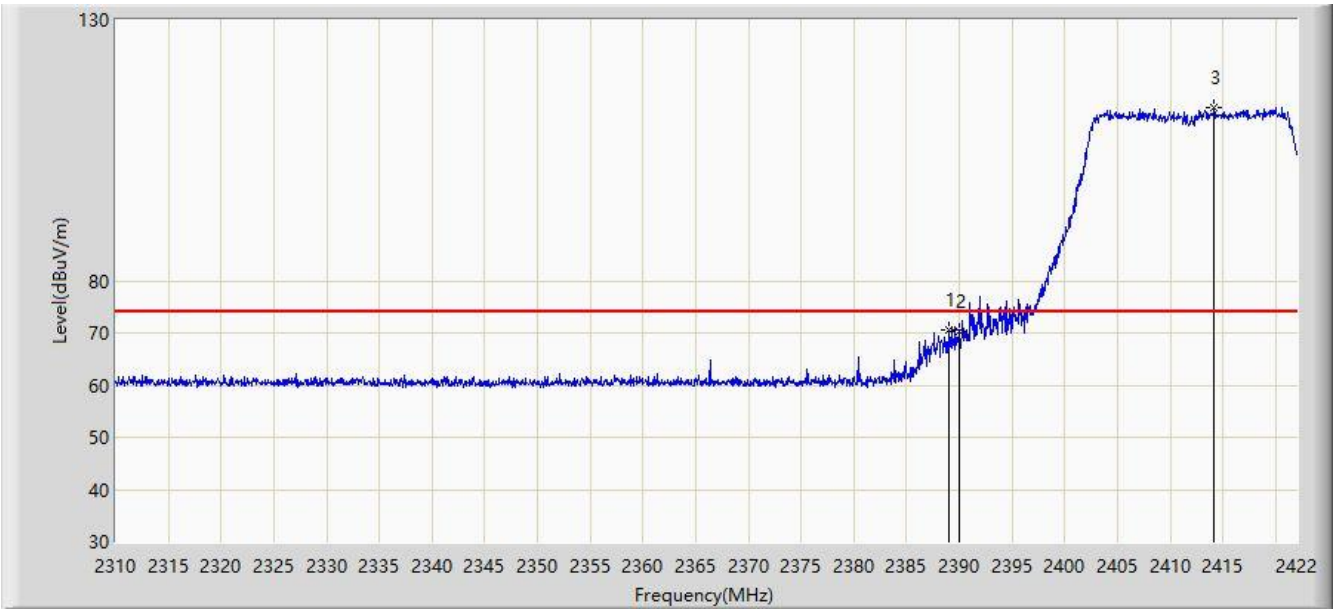
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2439.990	98.421	69.232	N/A	N/A	29.189	AV
2			2483.500	52.489	23.346	-1.511	54.000	29.143	AV

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

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

.

Site: AC2	Time: 2020/07/20 - 20:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz (Beamforming Mode)	

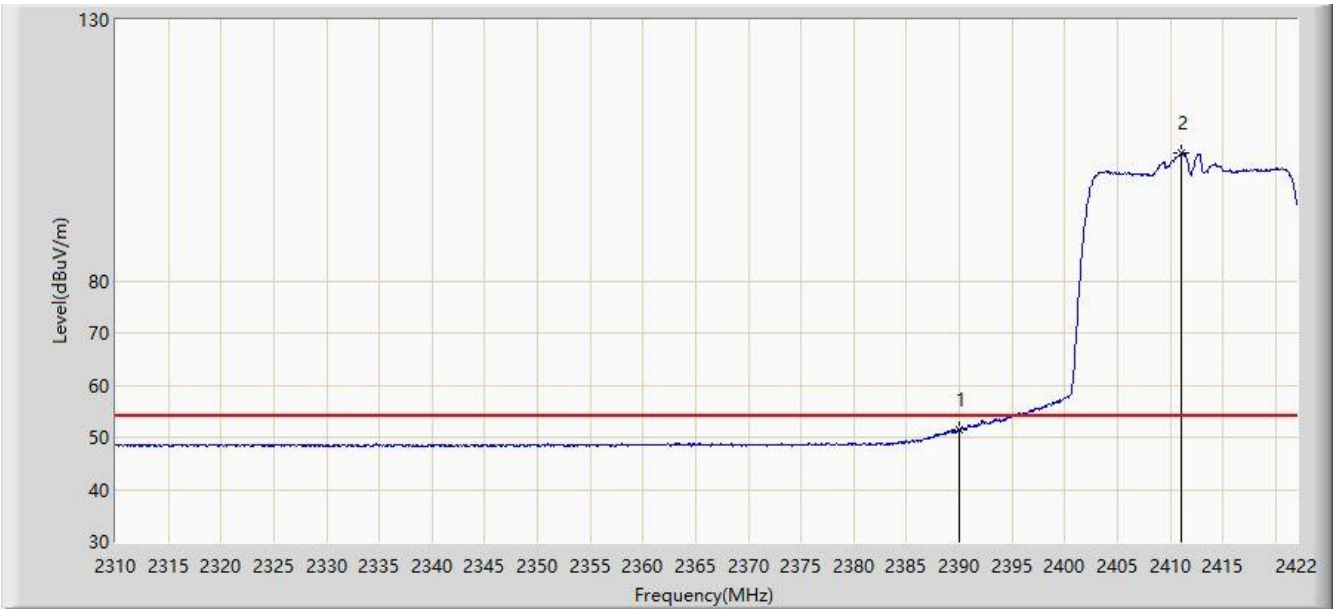


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.960	70.581	41.285	-3.419	74.000	29.296	PK
2			2390.000	70.364	41.069	-3.636	74.000	29.296	PK
3		*	2414.160	113.163	83.906	N/A	N/A	29.257	PK

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

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

Site: AC2	Time: 2020/07/20 - 21:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz (Beamforming Mode)	

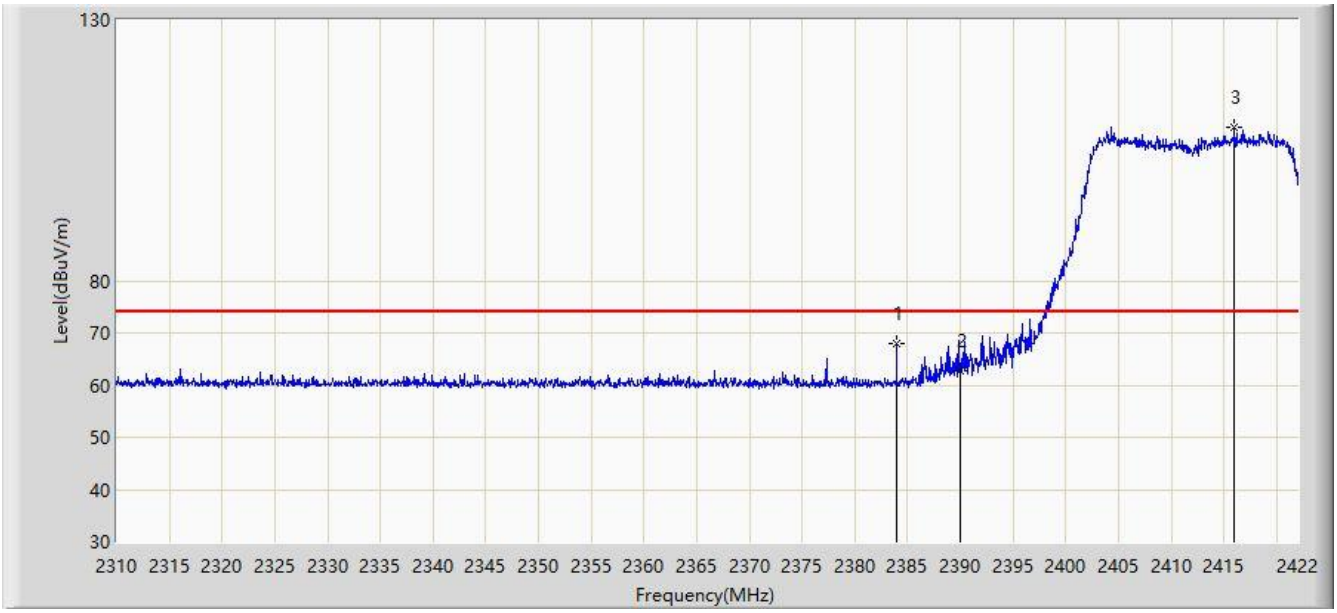


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.395	22.100	-2.605	54.000	29.296	AV
2		*	2411.080	104.422	75.156	N/A	N/A	29.266	AV

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

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

Site: AC2	Time: 2020/07/20 - 21:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz (Beamforming Mode)	

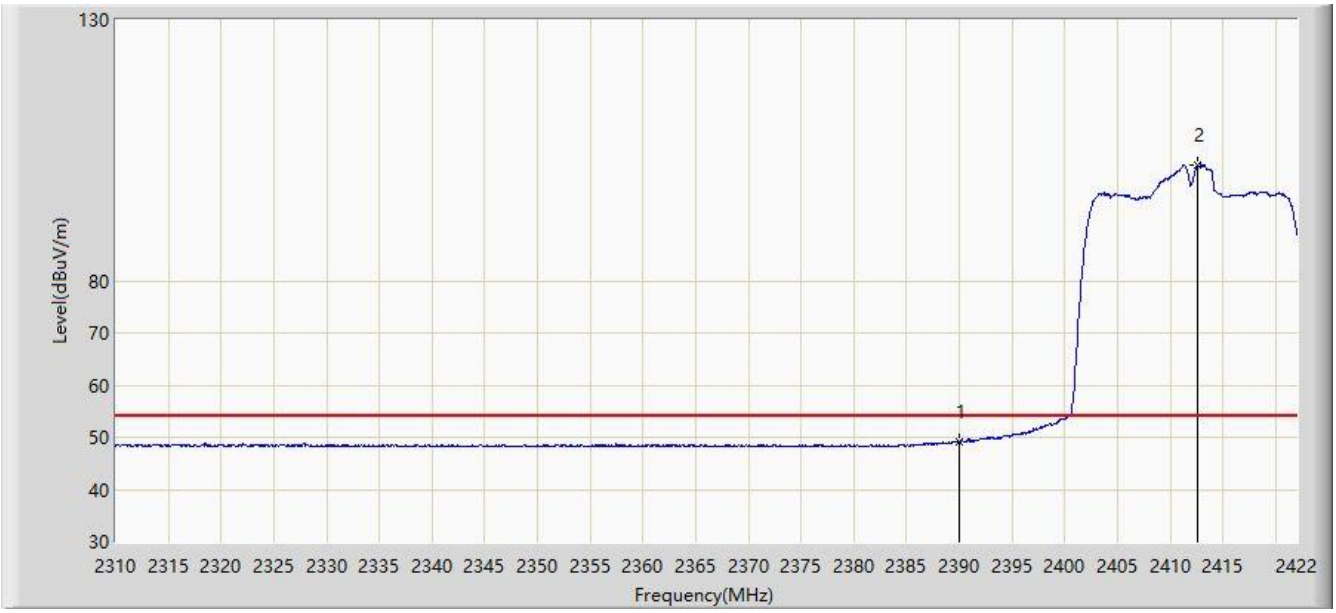


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.976	67.945	38.645	-6.055	74.000	29.300	PK
2			2390.000	62.880	33.585	-11.120	74.000	29.296	PK
3		*	2416.008	109.387	80.134	N/A	N/A	29.253	PK

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

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

Site: AC2	Time: 2020/07/20 - 21:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2412MHz (Beamforming Mode)	

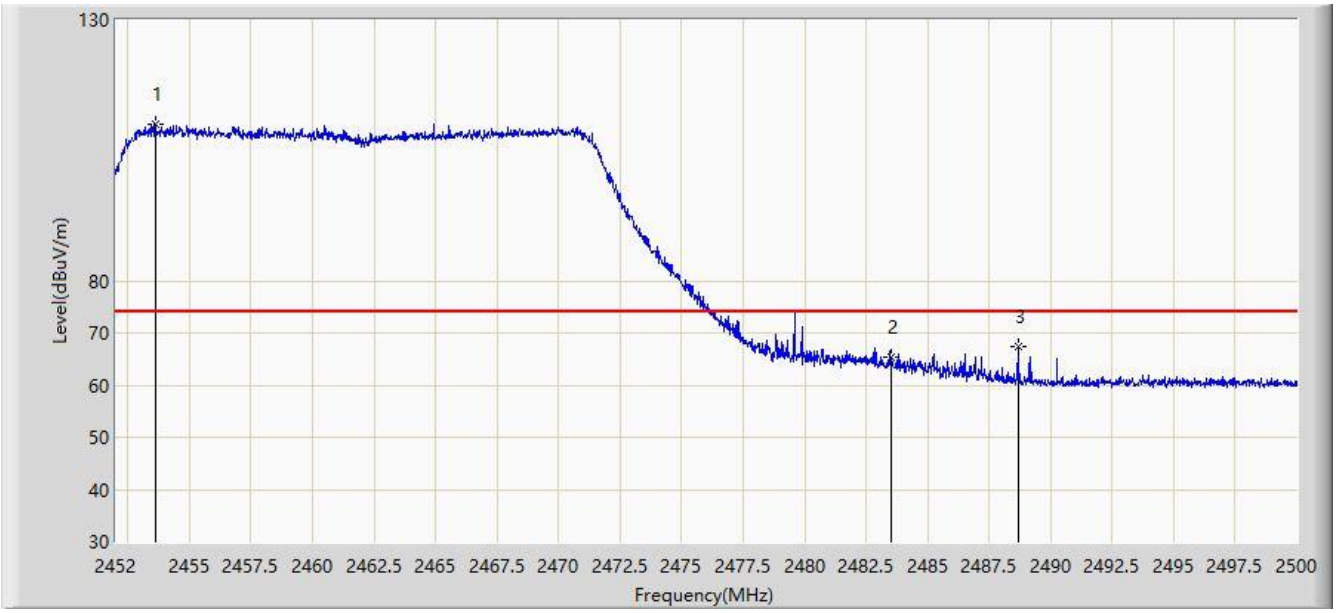


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	49.000	19.705	-5.000	54.000	29.296	AV
2		*	2412.648	102.244	72.983	N/A	N/A	29.261	AV

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

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

Site: AC2	Time: 2020/07/20 - 21:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz (Beamforming Mode)	

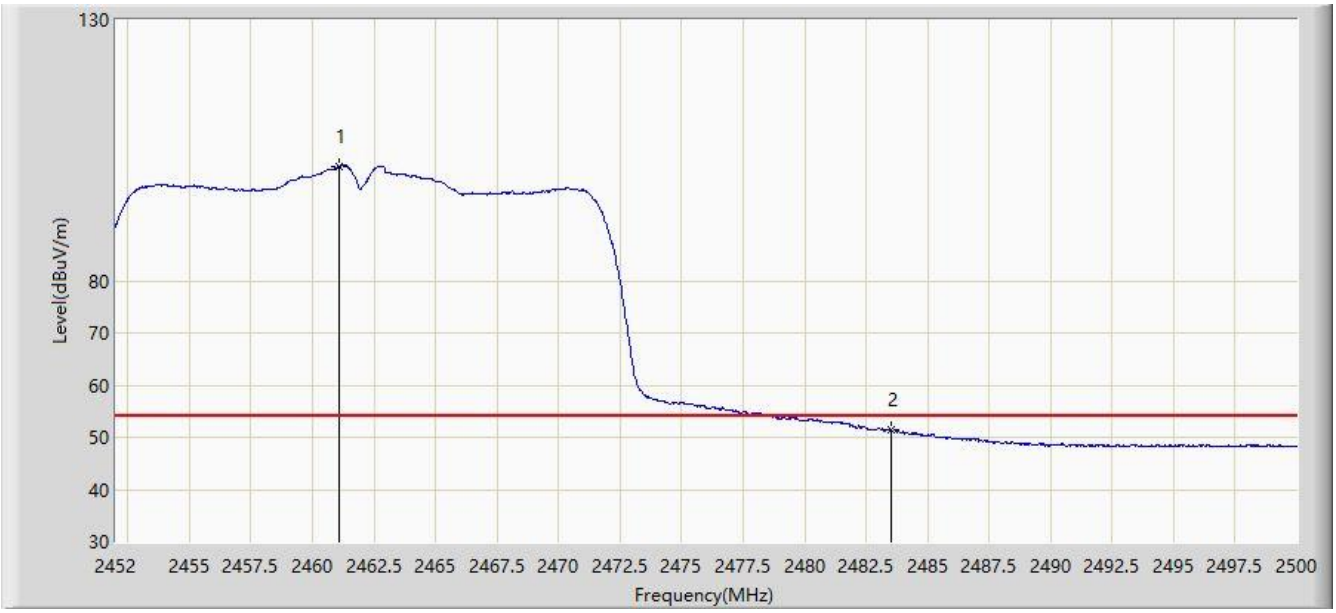


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.608	110.125	81.056	N/A	N/A	29.069	PK
2			2483.500	65.228	36.085	-8.772	74.000	29.143	PK
3			2488.672	67.486	38.340	-6.514	74.000	29.146	PK

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

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

Site: AC2	Time: 2020/07/20 - 21:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz (Beamforming Mode)	

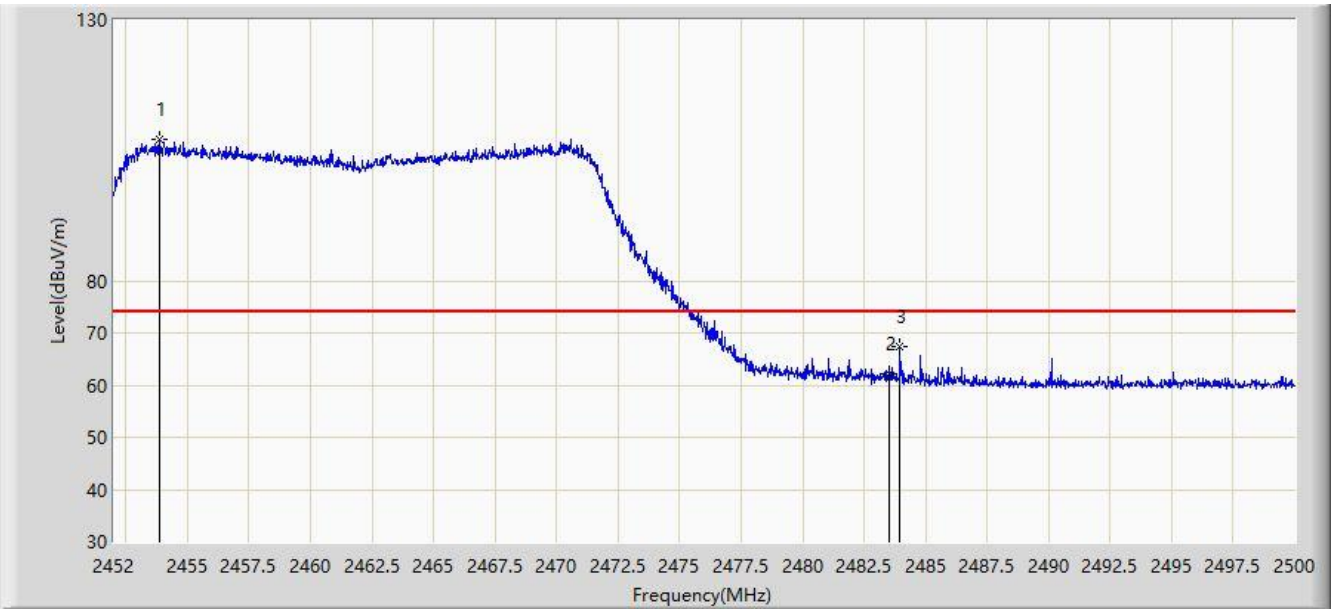


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.096	101.948	72.853	N/A	N/A	29.095	AV
2			2483.500	51.318	22.175	-2.682	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/07/20 - 21:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz (Beamforming Mode)	

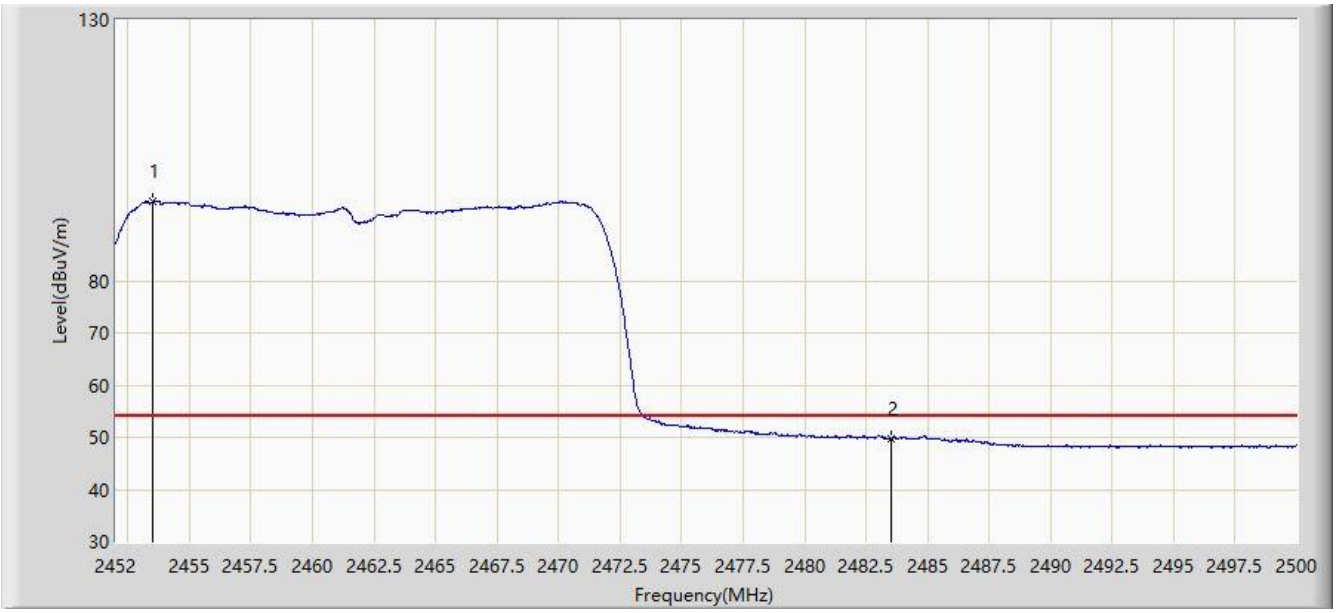


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.848	107.016	77.946	N/A	N/A	29.070	PK
2			2483.500	62.086	32.943	-11.914	74.000	29.143	PK
3			2483.968	67.256	38.112	-6.744	74.000	29.144	PK

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

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

Site: AC2	Time: 2020/07/20 - 21:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at Channel 2462MHz (Beamforming Mode)	

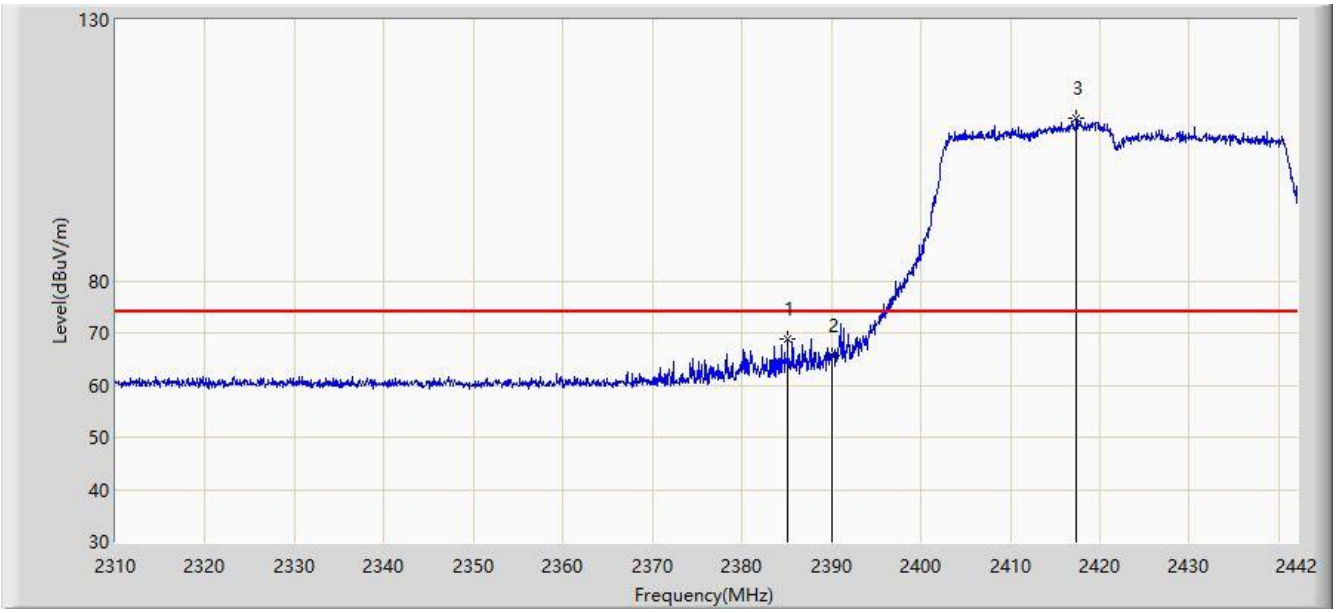


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.512	95.139	66.070	N/A	N/A	29.069	AV
2			2483.500	49.755	20.612	-4.245	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/07/20 - 21:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz (Beamforming Mode)	

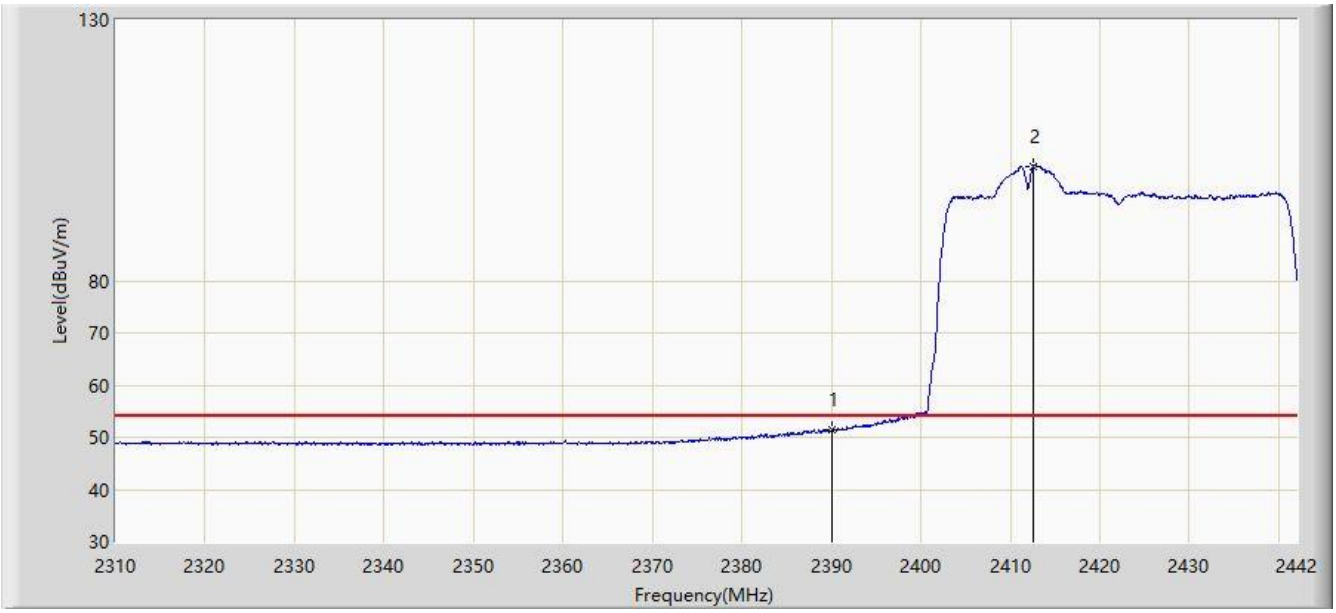


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.108	68.925	39.626	-5.075	74.000	29.299	PK
2			2390.000	65.765	36.470	-8.235	74.000	29.296	PK
3		*	2417.382	111.209	81.955	N/A	N/A	29.253	PK

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

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

Site: AC2	Time: 2020/07/20 - 21:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz (Beamforming Mode)	

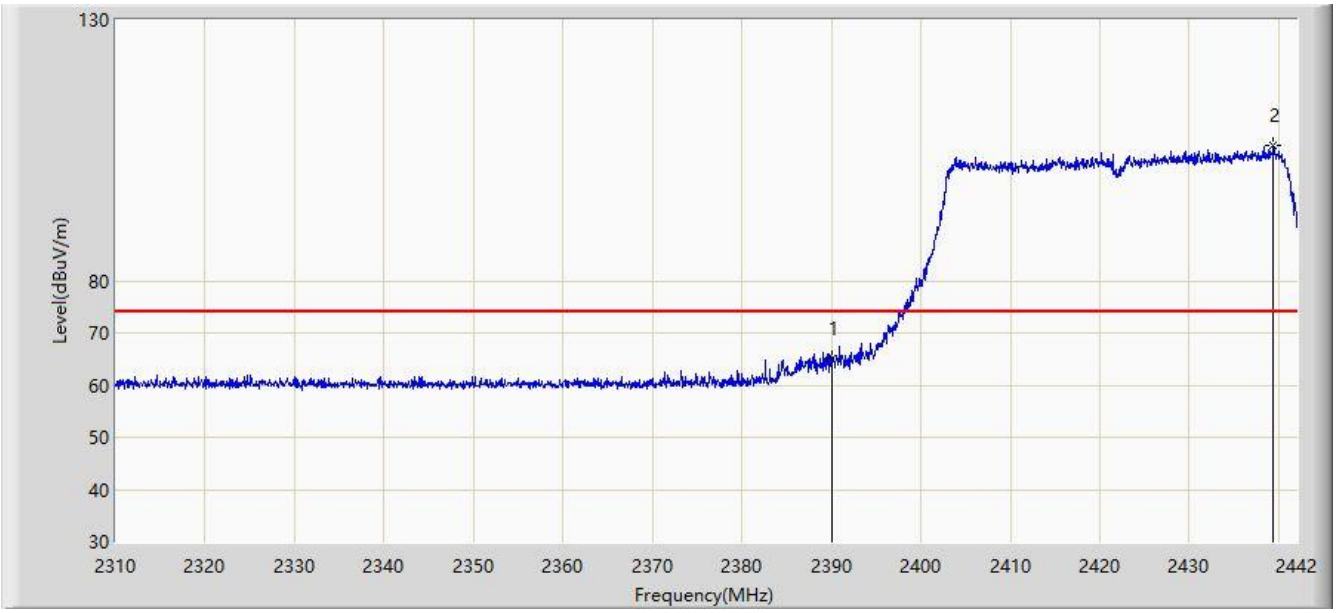


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.378	22.083	-2.622	54.000	29.296	AV
2		*	2412.564	101.936	72.675	N/A	N/A	29.261	AV

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

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

Site: AC2	Time: 2020/07/21 - 01:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz (Beamforming Mode)	

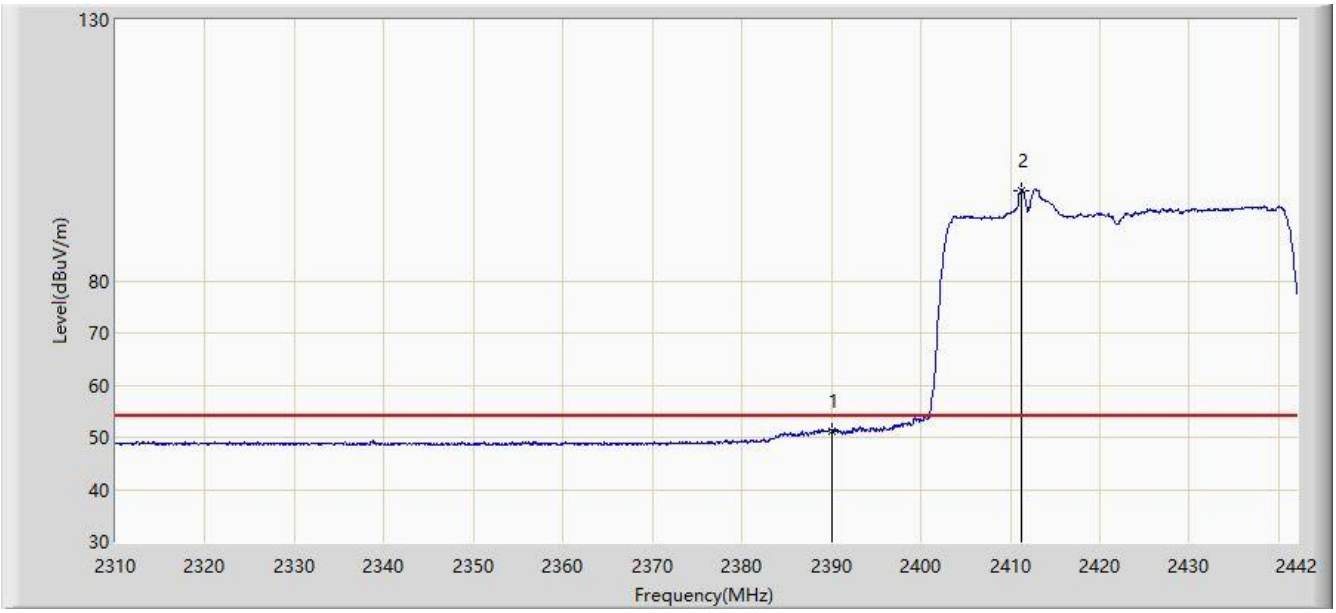


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	65.217	35.922	-8.783	74.000	29.296	PK
2		*	2439.360	105.895	76.698	N/A	N/A	29.197	PK

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

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

Site: AC2	Time: 2020/07/21 - 02:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2422MHz (Beamforming Mode)	

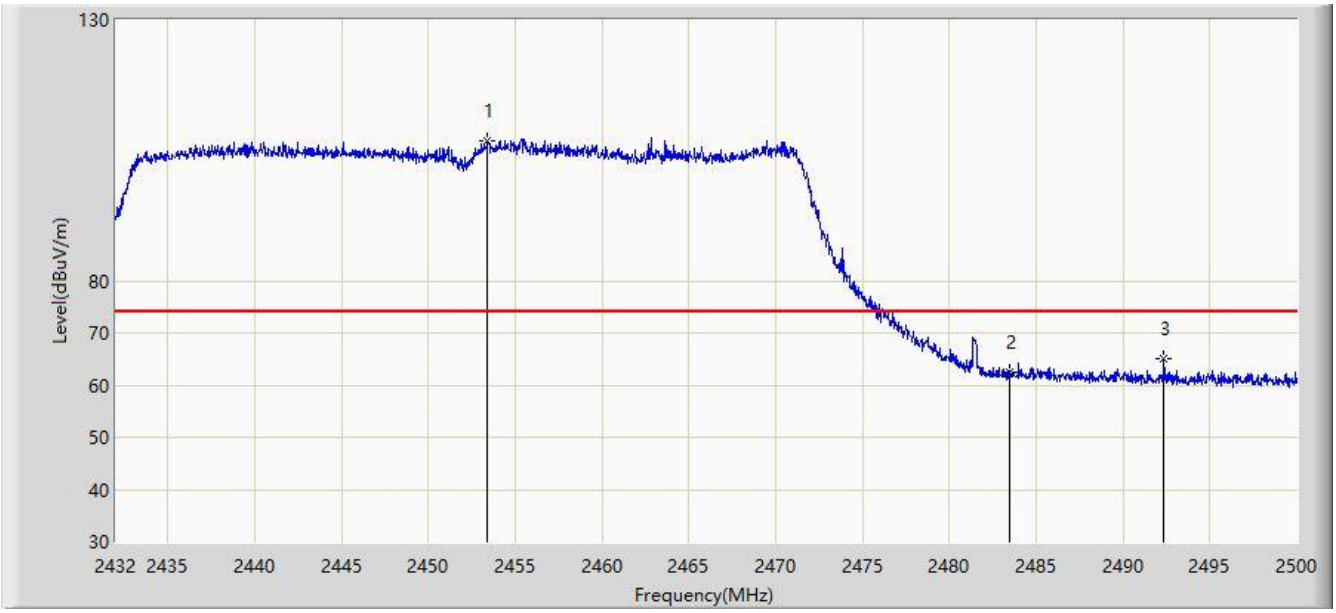


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	51.165	21.870	-2.835	54.000	29.296	AV
2		*	2411.244	97.335	68.070	N/A	N/A	29.265	AV

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

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

Site: AC2	Time: 2020/07/21 - 02:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz (Beamforming Mode)	

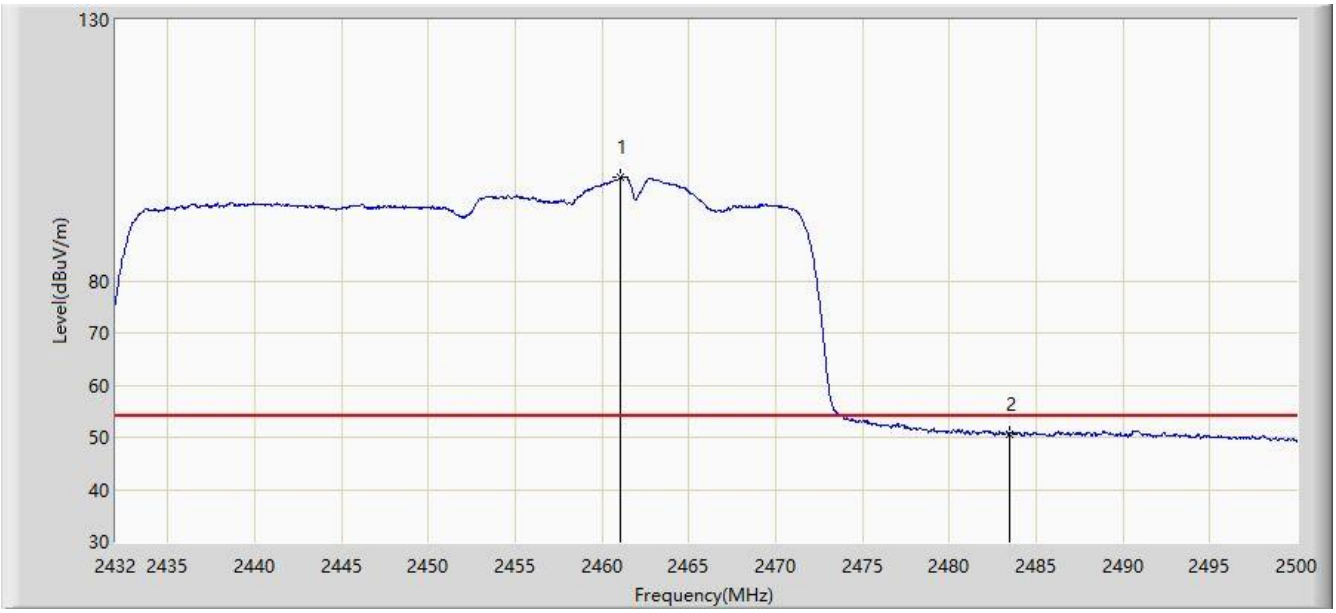


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.420	106.883	77.815	N/A	N/A	29.068	PK
2			2483.500	62.468	33.325	-11.532	74.000	29.143	PK
3			2492.350	65.164	36.029	-8.836	74.000	29.135	PK

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

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

Site: AC2	Time: 2020/07/21 - 02:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz (Beamforming Mode)	

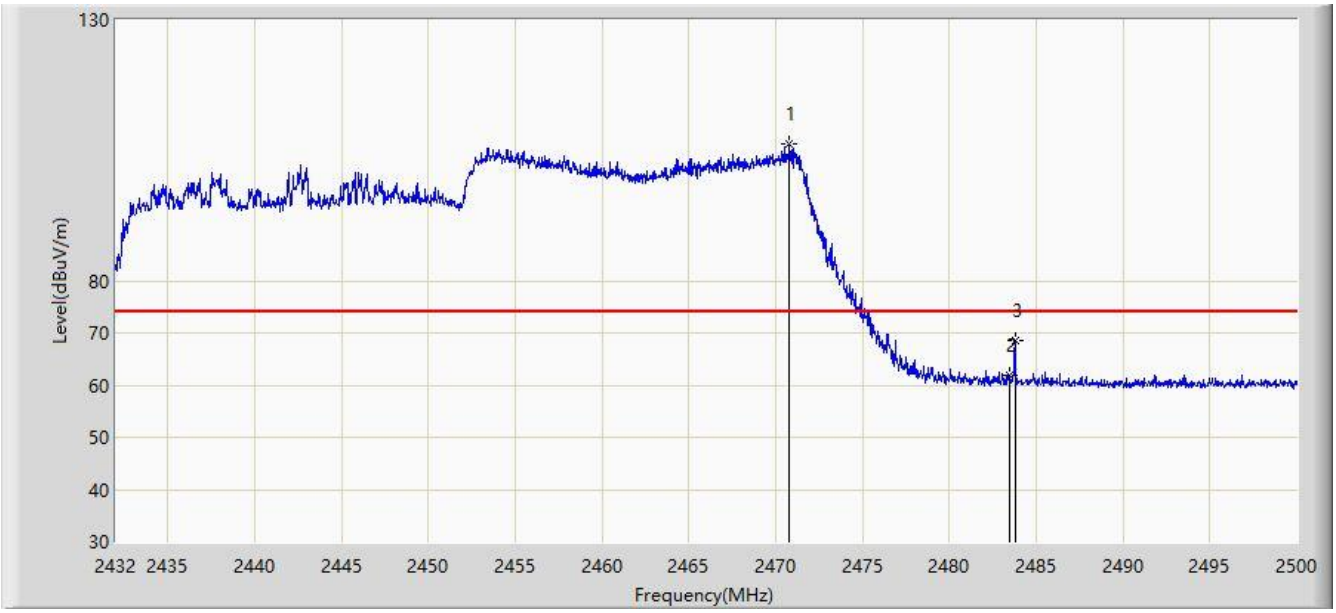


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.036	99.752	70.658	N/A	N/A	29.094	AV
2			2483.500	50.611	21.468	-3.389	54.000	29.143	AV

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

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

Site: AC2	Time: 2020/07/21 - 02:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz (Beamforming Mode)	

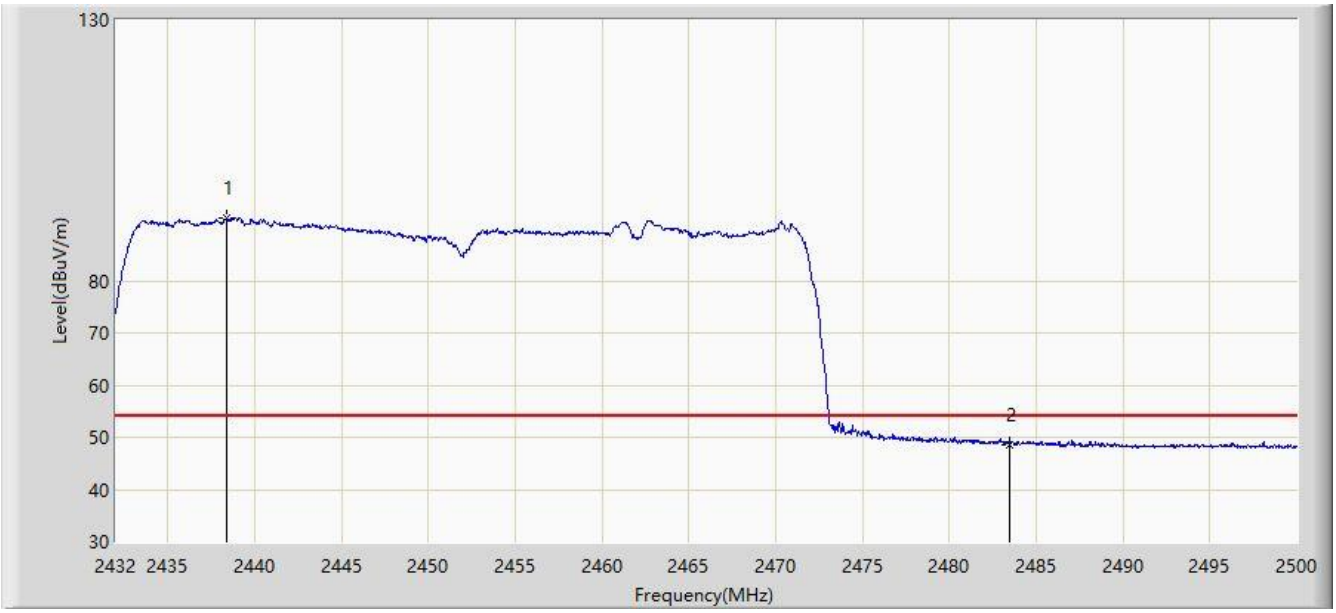


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2470.794	106.101	76.975	N/A	N/A	29.126	PK
2			2483.500	61.761	32.618	-12.239	74.000	29.143	PK
3			2483.782	68.410	39.266	-5.590	74.000	29.144	PK

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

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

Site: AC2	Time: 2020/07/21 - 02:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at Channel 2452MHz (Beamforming Mode)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2438.426	91.985	62.776	N/A	N/A	29.209	AV
2			2483.500	48.655	19.512	-5.345	54.000	29.143	AV

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

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

6.8. AC Conducted Emissions Measurement

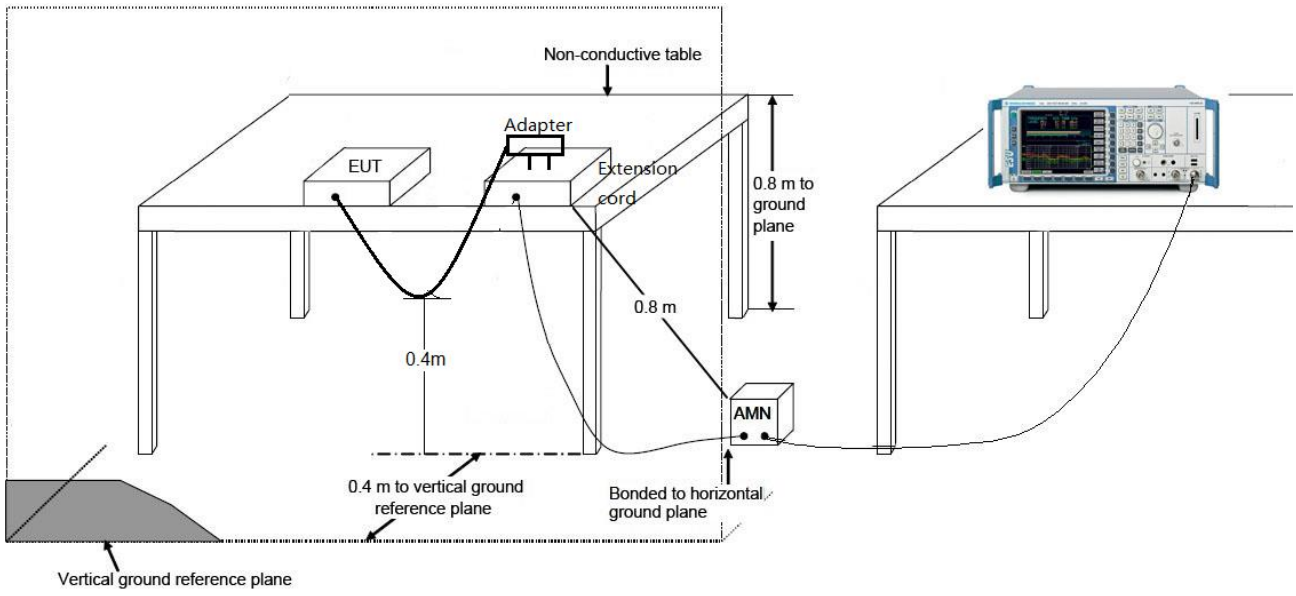
6.8.1.Test Limit

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.

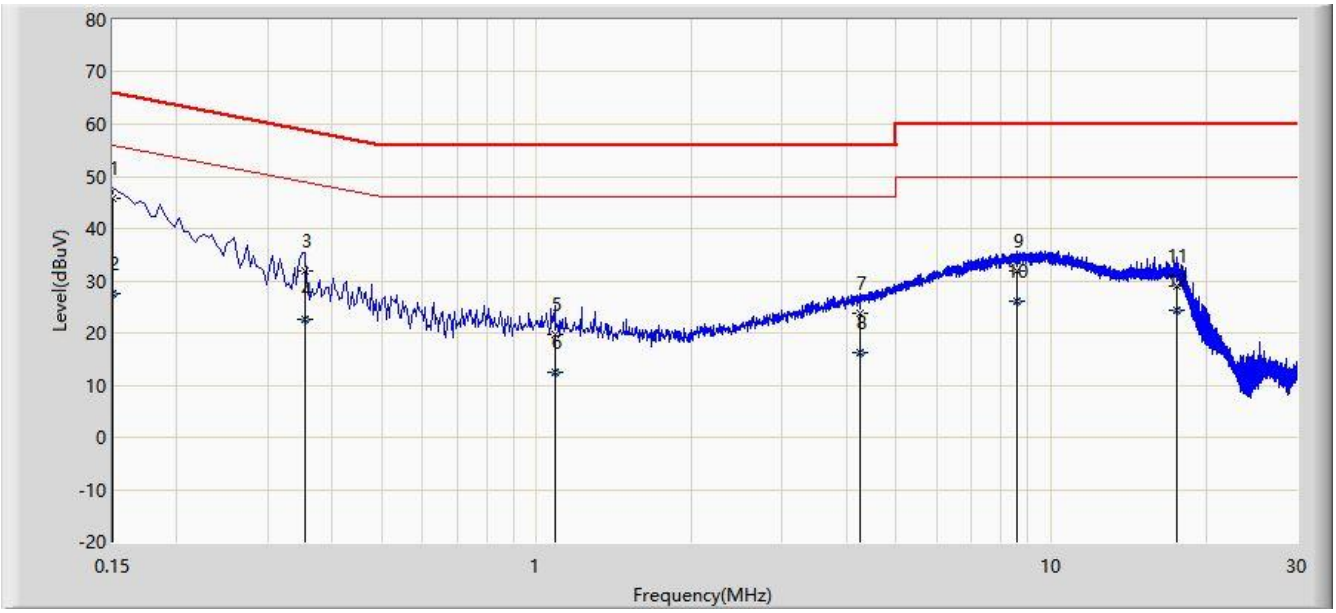
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2.Test Setup



6.8.3.Test Result

Site: SR2	Time: 2020/08/13 - 03:08
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode 1	

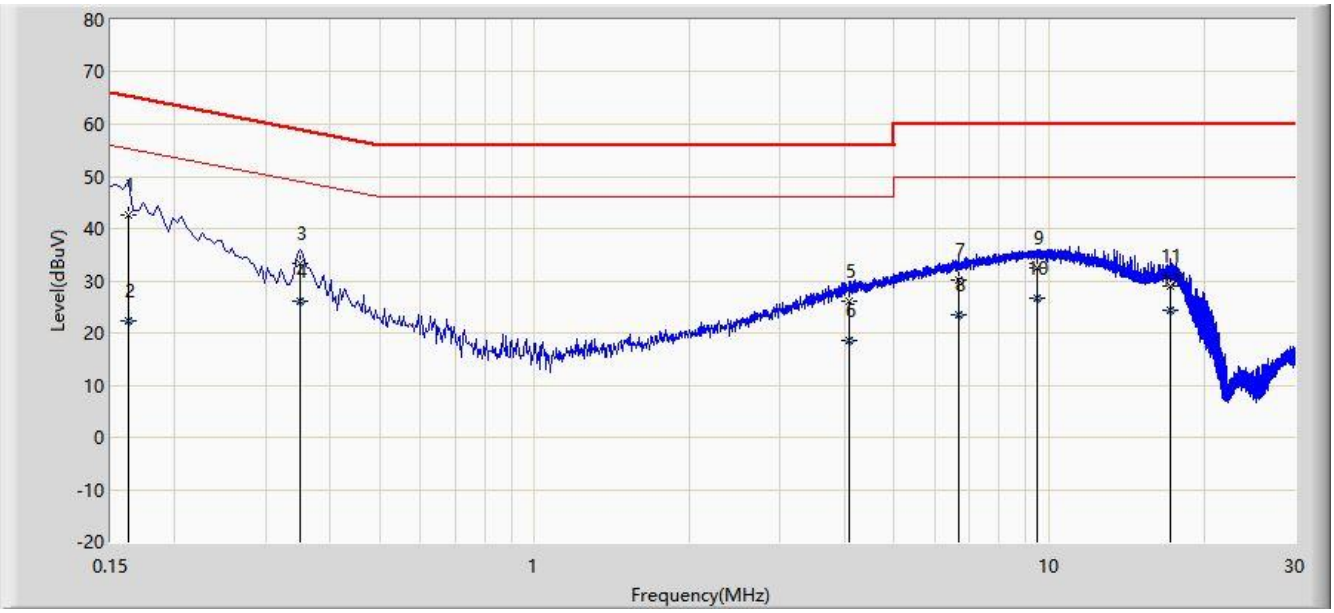


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB）	Type
1		*	0.150	45.665	36.052	-20.335	66.000	9.613	QP
2			0.150	27.549	17.936	-28.451	56.000	9.613	AV
3			0.354	31.887	22.218	-26.981	58.868	9.670	QP
4			0.354	22.511	12.842	-26.357	48.868	9.670	AV
5			1.086	19.704	9.952	-36.296	56.000	9.752	QP
6			1.086	12.382	2.630	-33.618	46.000	9.752	AV
7			4.250	23.827	13.990	-32.173	56.000	9.837	QP
8			4.250	16.235	6.398	-29.765	46.000	9.837	AV
9			8.598	31.857	21.849	-28.143	60.000	10.008	QP
10			8.598	26.046	16.038	-23.954	50.000	10.008	AV
11			17.534	28.975	18.690	-31.025	60.000	10.284	QP
12			17.534	24.431	14.147	-25.569	50.000	10.284	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2020/08/13 - 03:13
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB）	Type
1		*	0.162	42.501	32.892	-22.860	65.361	9.609	QP
2			0.162	22.281	12.671	-33.080	55.361	9.609	AV
3			0.350	33.424	23.766	-25.538	58.962	9.658	QP
4			0.350	25.972	16.313	-22.991	48.962	9.658	AV
5			4.094	26.168	16.342	-29.832	56.000	9.825	QP
6			4.094	18.631	8.806	-27.369	46.000	9.825	AV
7			6.690	30.162	20.231	-29.838	60.000	9.931	QP
8			6.690	23.534	13.603	-26.466	50.000	9.931	AV
9			9.462	32.437	22.403	-27.563	60.000	10.034	QP
10			9.462	26.617	16.583	-23.383	50.000	10.034	AV
11			17.234	29.024	18.791	-30.976	60.000	10.233	QP
12			17.234	24.464	14.231	-25.536	50.000	10.233	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

7. CONCLUSION

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

The End

Appendix A - Test Setup Photograph

Refer to “2006RSU066-UT” file.

Appendix B - EUT Photograph

Refer to “ 2006RSU066-UE” file.