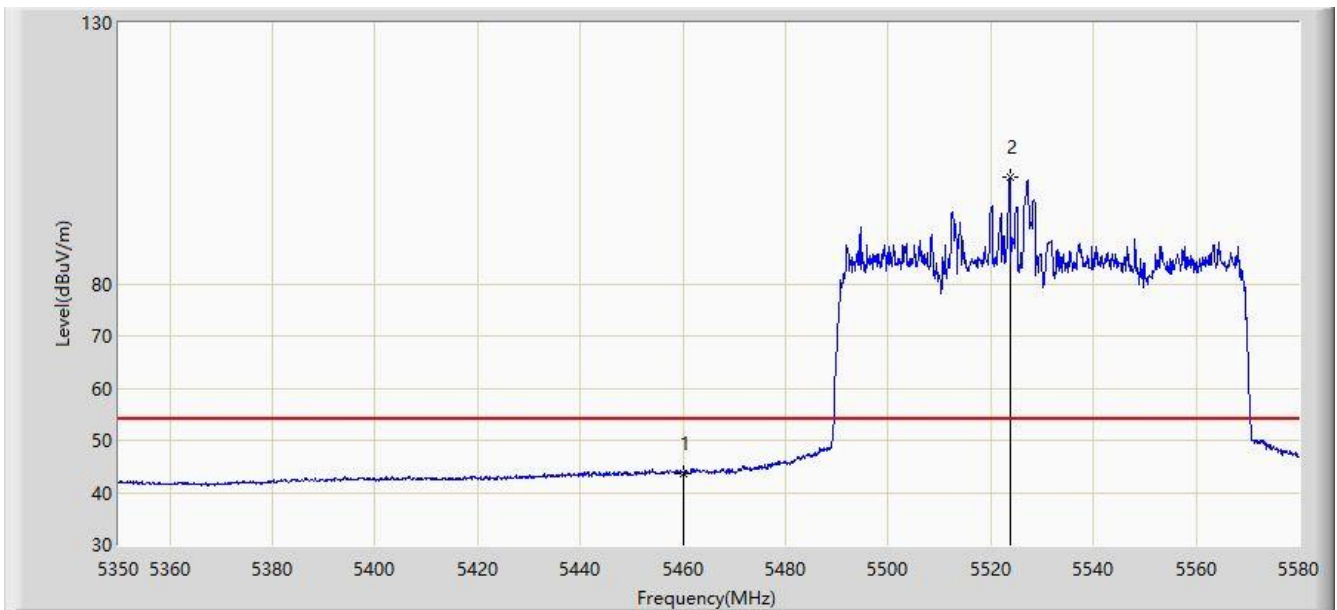


Site: AC2	Time: 2020/07/20 - 23:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at channel 5530MHz - Beamforming mode	

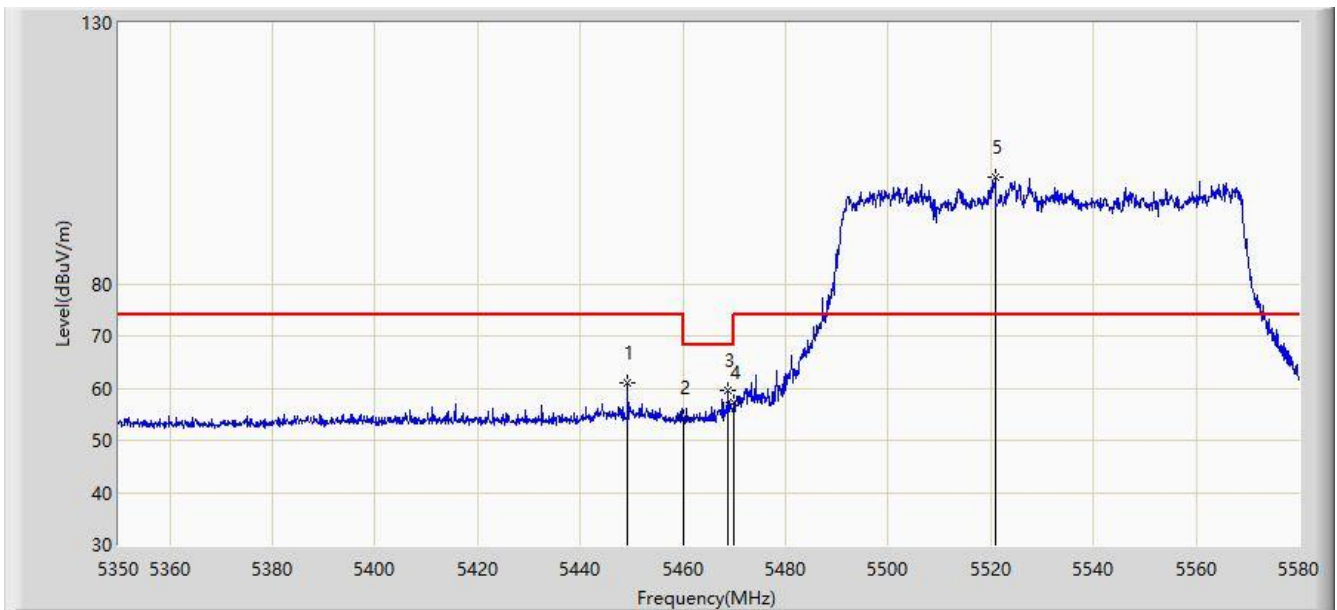


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	43.718	43.439	-10.282	54.000	0.279	AV
2		*	5523.765	100.321	99.543	N/A	N/A	0.778	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:15
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-HE80 at channel 5530MHz - Beamforming mode	

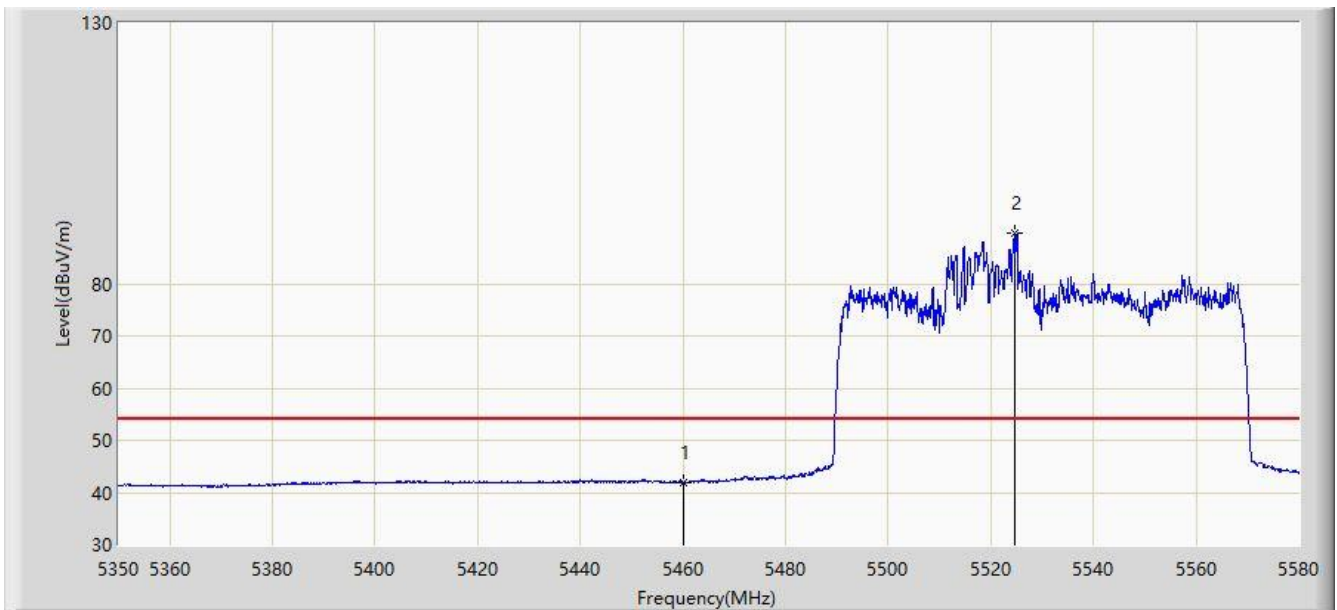


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5449.245	60.913	60.561	-13.087	74.000	0.352	PK
2			5460.000	54.207	53.928	-19.793	74.000	0.279	PK
3			5468.795	59.478	59.218	-8.722	68.200	0.260	PK
4			5470.000	57.348	57.091	-10.852	68.200	0.257	PK
5		*	5520.890	100.532	99.791	N/A	N/A	0.741	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:16
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-HE80 at channel 5530MHz - Beamforming mode	

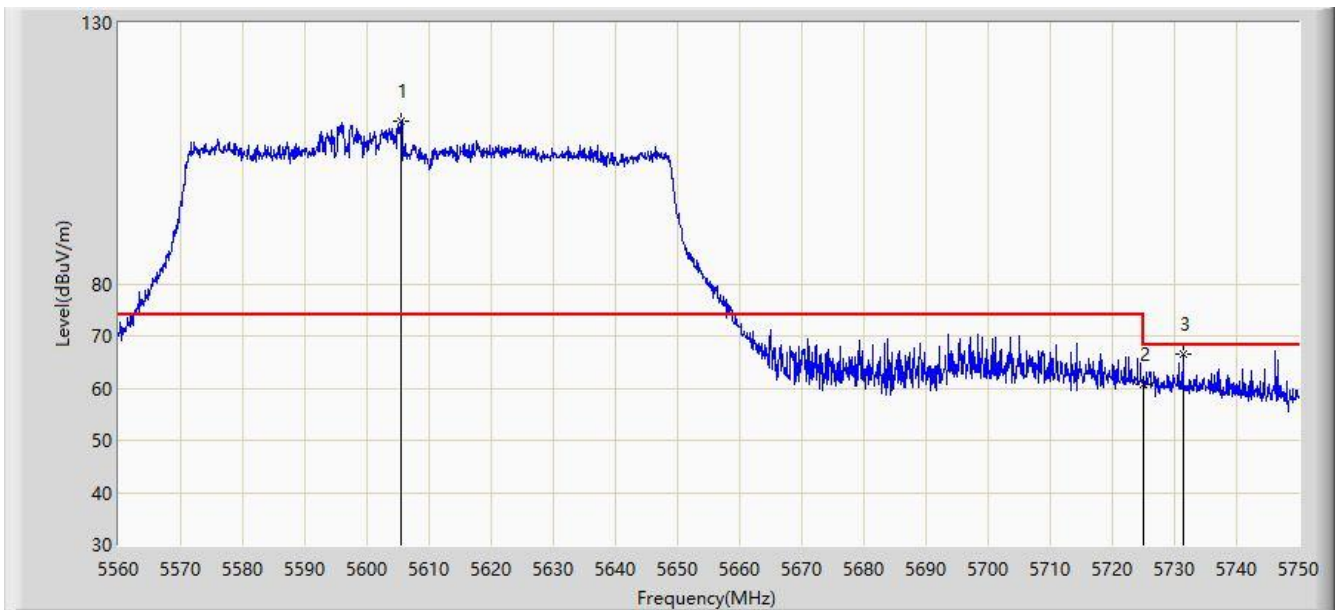


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	41.899	41.620	-12.101	54.000	0.279	AV
2		*	5524.685	89.696	88.917	N/A	N/A	0.780	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:20
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-HE80 at channel 5610MHz - Beamforming mode	

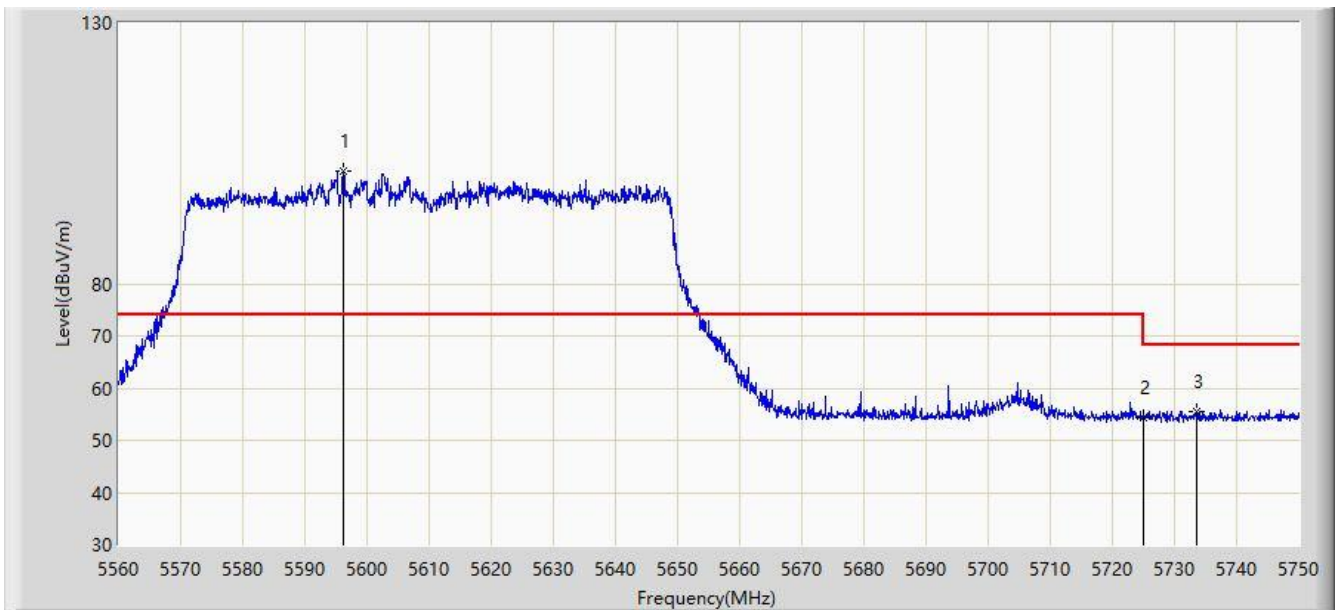


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5605.505	111.227	110.300	N/A	N/A	0.927	PK
2			5725.000	60.754	59.321	-7.446	68.200	1.433	PK
3			5731.380	66.587	65.188	-1.613	68.200	1.398	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:23
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-HE80 at channel 5610MHz - Beamforming mode	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5596.290	101.502	100.695	N/A	N/A	0.806	PK
2			5725.000	54.409	52.976	-13.791	68.200	1.433	PK
3			5733.660	55.546	54.157	-12.654	68.200	1.390	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

## 6.9. AC Conducted Emissions Measurement

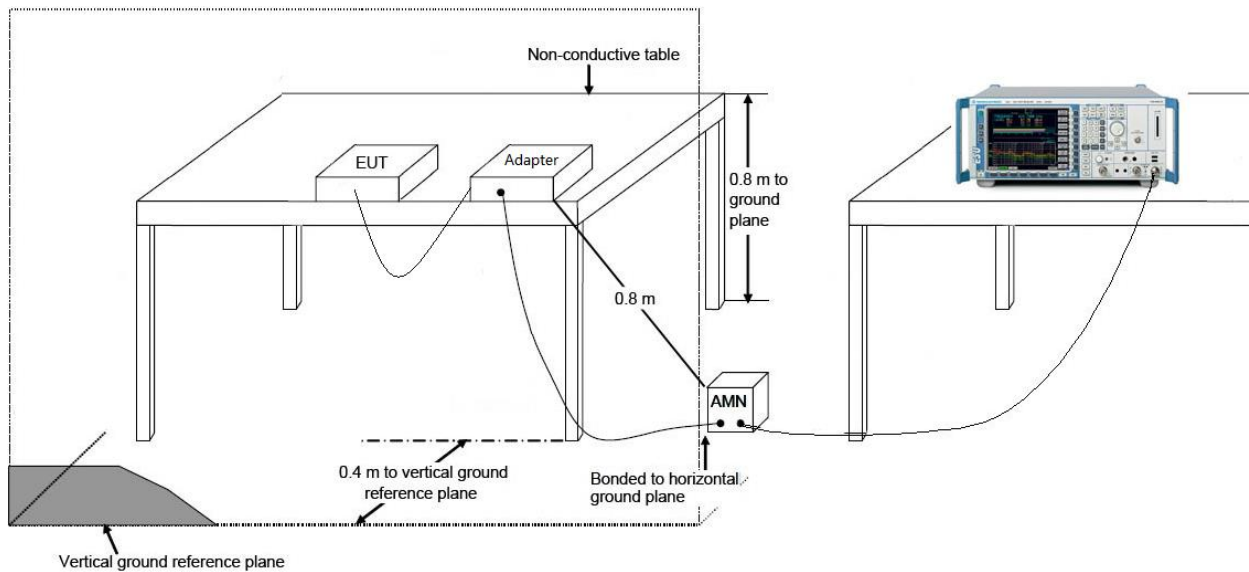
### 6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	AV (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

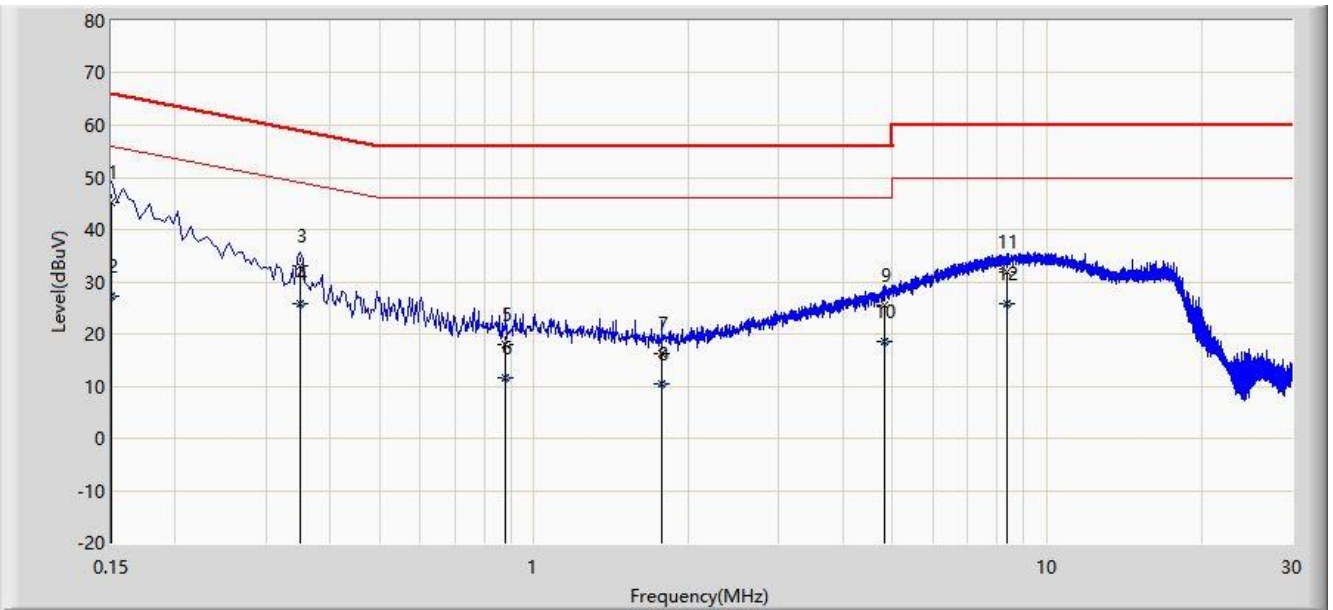
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 6.9.2. Test Setup



### 6.9.3. Test Result

Site: SR2	Time: 2020/08/13 - 03:17
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Note: Test Mode 1	

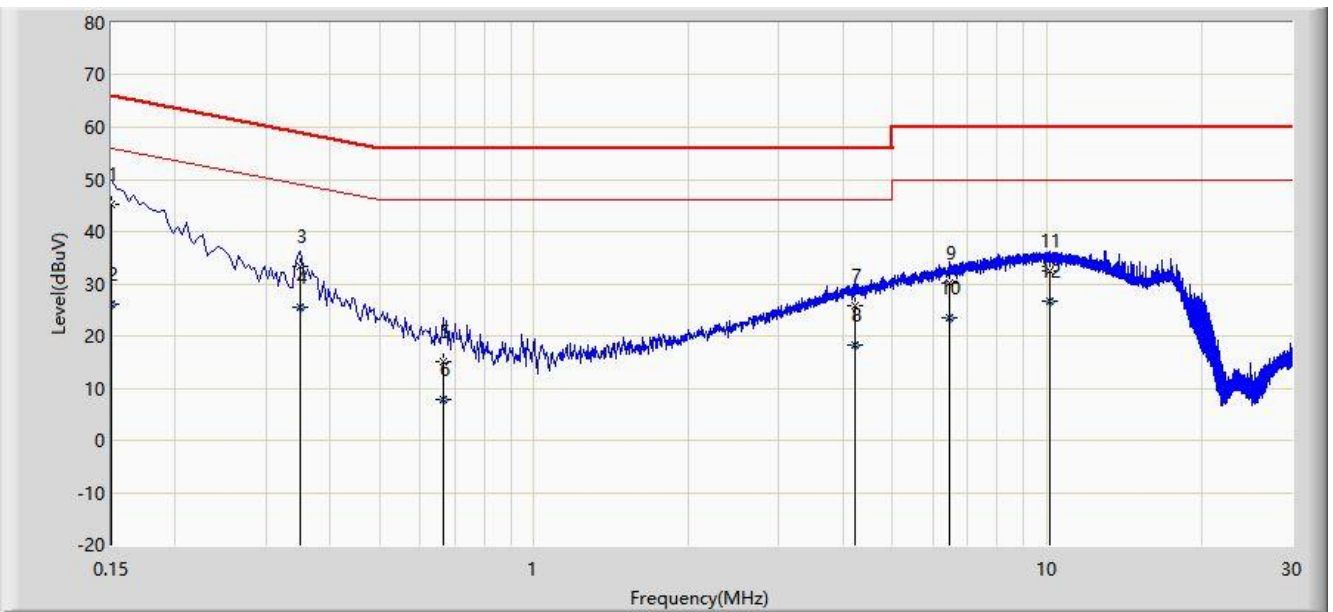


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor	Type
1		*	0.150	45.341	35.728	-20.659	66.000	9.613	QP
2			0.150	27.298	17.685	-28.702	56.000	9.613	AV
3			0.350	32.999	23.330	-25.964	58.962	9.668	QP
4			0.350	25.829	16.160	-23.134	48.962	9.668	AV
5			0.882	17.905	8.164	-38.095	56.000	9.740	QP
6			0.882	11.695	1.955	-34.305	46.000	9.740	AV
7			1.774	16.352	6.593	-39.648	56.000	9.759	QP
8			1.774	10.305	0.546	-35.695	46.000	9.759	AV
9			4.818	25.495	15.639	-30.505	56.000	9.856	QP
10			4.818	18.636	8.779	-27.364	46.000	9.856	AV
11			8.350	31.853	21.853	-28.147	60.000	10.000	QP
12			8.350	25.711	15.711	-24.289	50.000	10.000	AV

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

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

Site: SR2	Time: 2020/08/13 - 03:21
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: GigaSpire BLAST u4	Power: AC 120V/60Hz
Note: Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor	Type
1		*	0.150	45.078	35.475	-20.922	66.000	9.603	QP
2			0.150	26.217	16.614	-29.783	56.000	9.603	AV
3			0.350	33.472	23.814	-25.490	58.962	9.658	QP
4			0.350	25.609	15.950	-23.354	48.962	9.658	AV
5			0.666	14.986	5.276	-41.014	56.000	9.710	QP
6			0.666	7.952	-1.758	-38.048	46.000	9.710	AV
7			4.222	25.802	15.973	-30.198	56.000	9.829	QP
8			4.222	18.319	8.490	-27.681	46.000	9.829	AV
9			6.458	30.237	20.317	-29.763	60.000	9.920	QP
10			6.458	23.608	13.687	-26.392	50.000	9.920	AV
11			10.134	32.575	22.519	-27.425	60.000	10.056	QP
12			10.134	26.746	16.690	-23.254	50.000	10.056	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 15E of the FCC Rules.

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The End

## **Appendix A - Test Setup Photograph**

Refer to "2006RSU066-UT" file.

## **Appendix B - EUT Photograph**

Refer to "2006RSU066-UE" file.