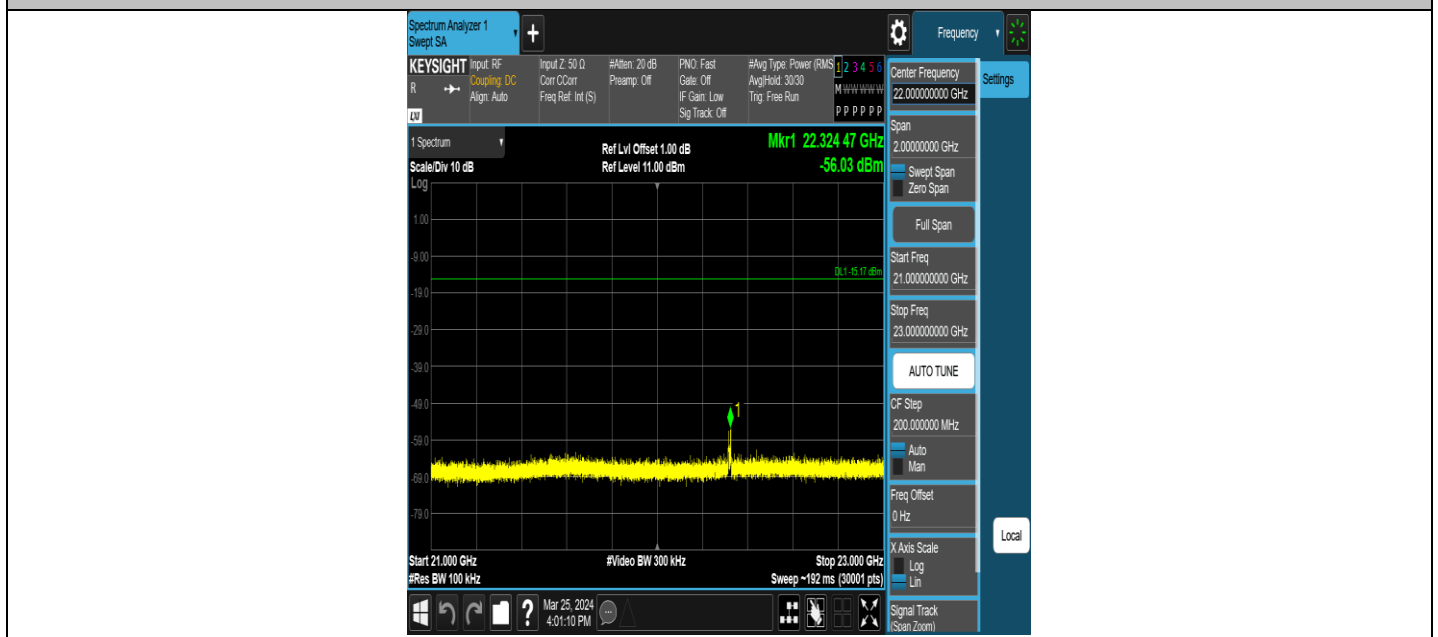
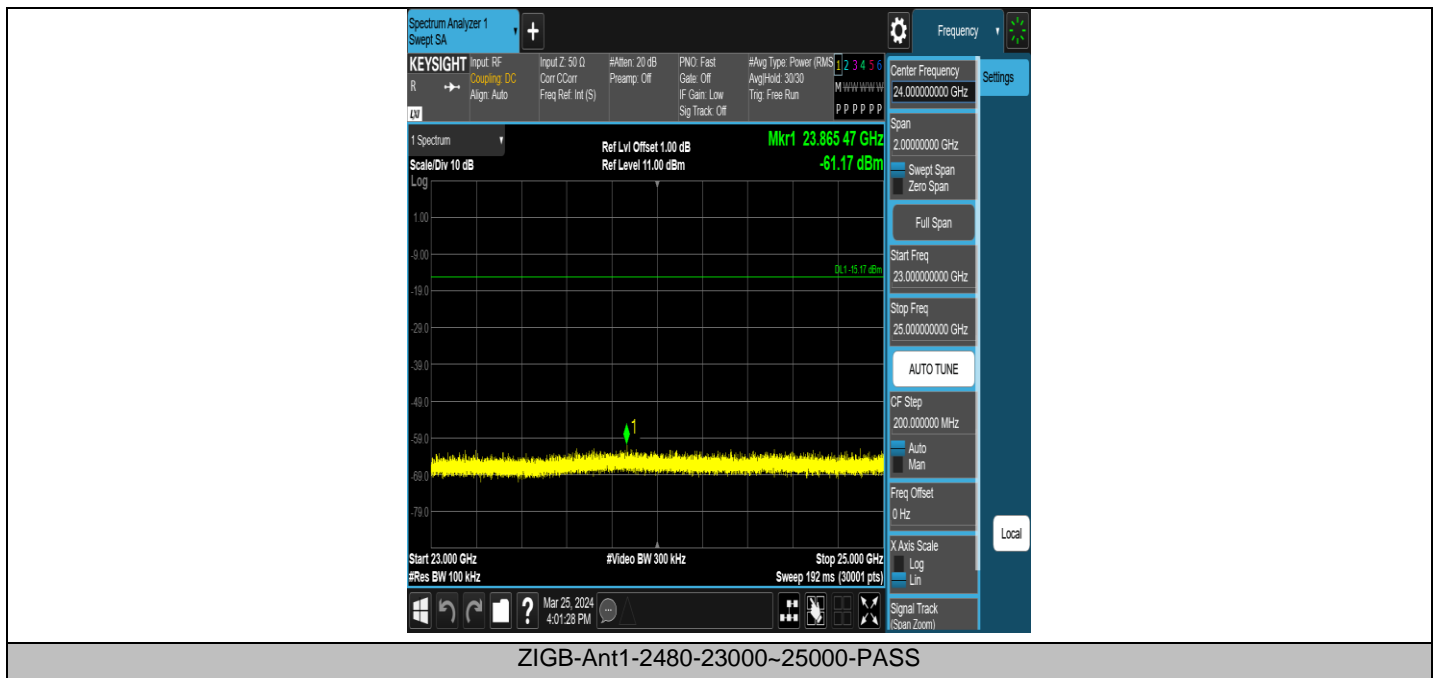


ZIGB-Ant1-2480-19000~21000-PASS

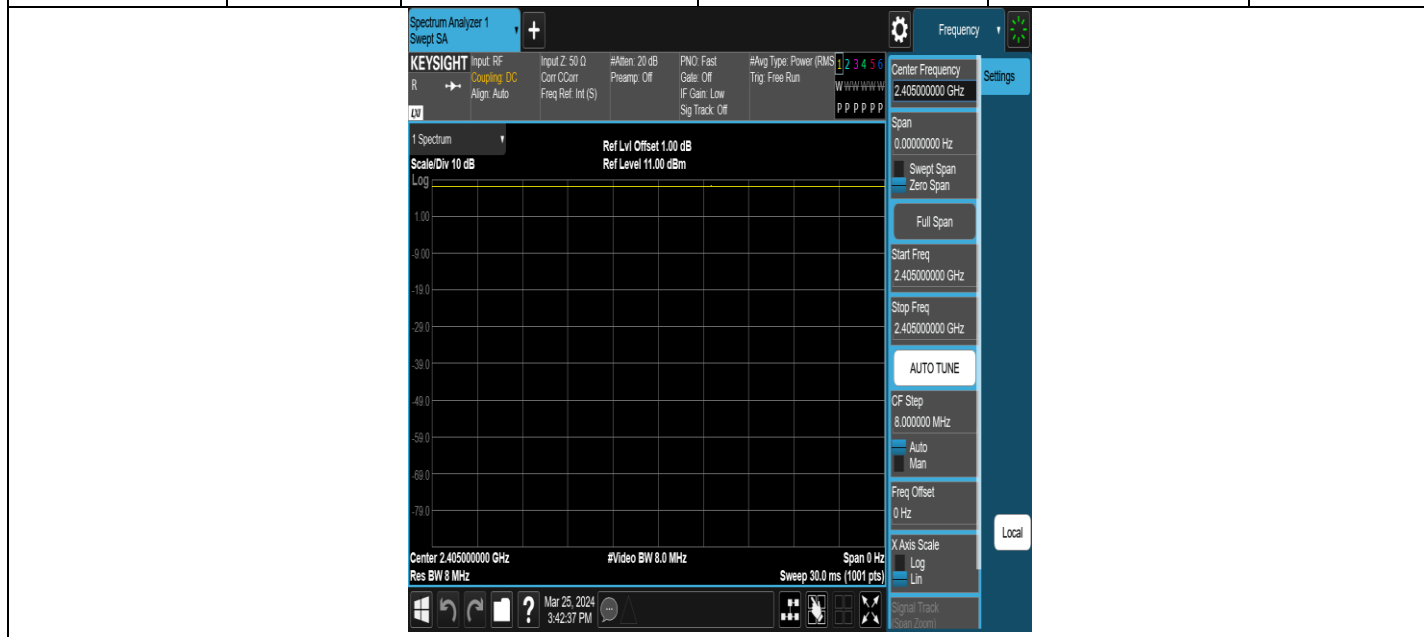


ZIGB-Ant1-2480-21000~23000-PASS

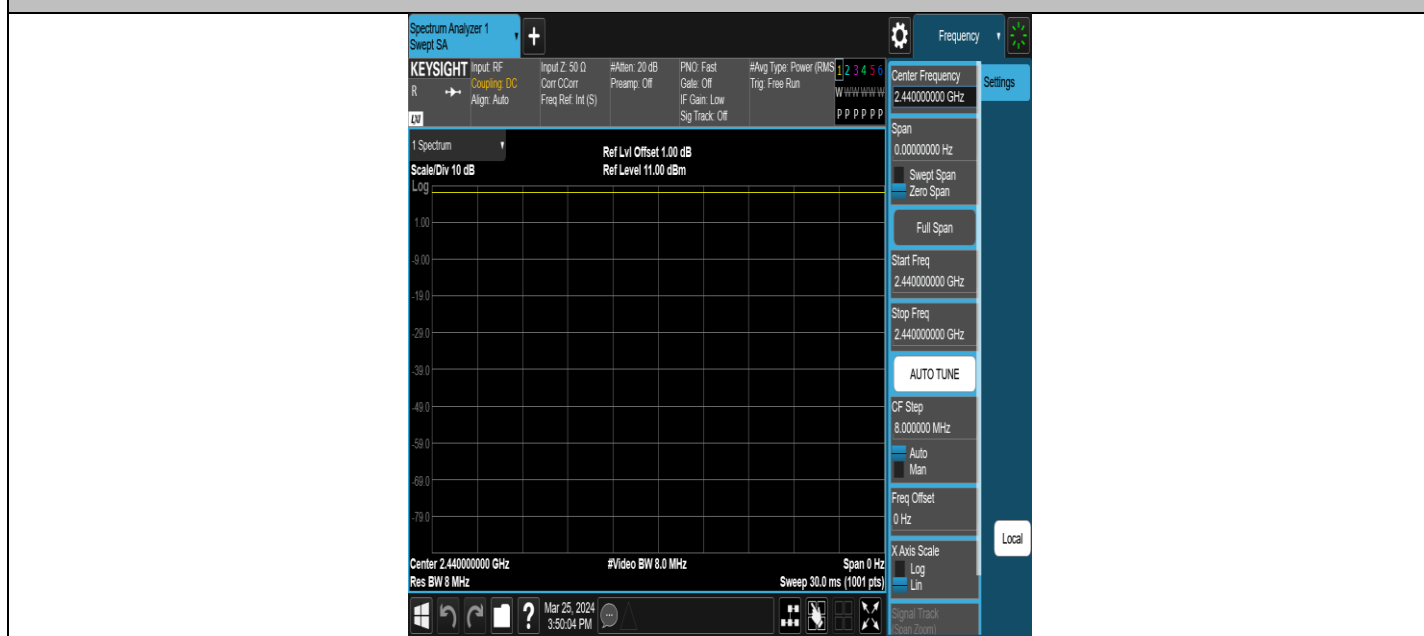


Appendix G: Duty Cycle

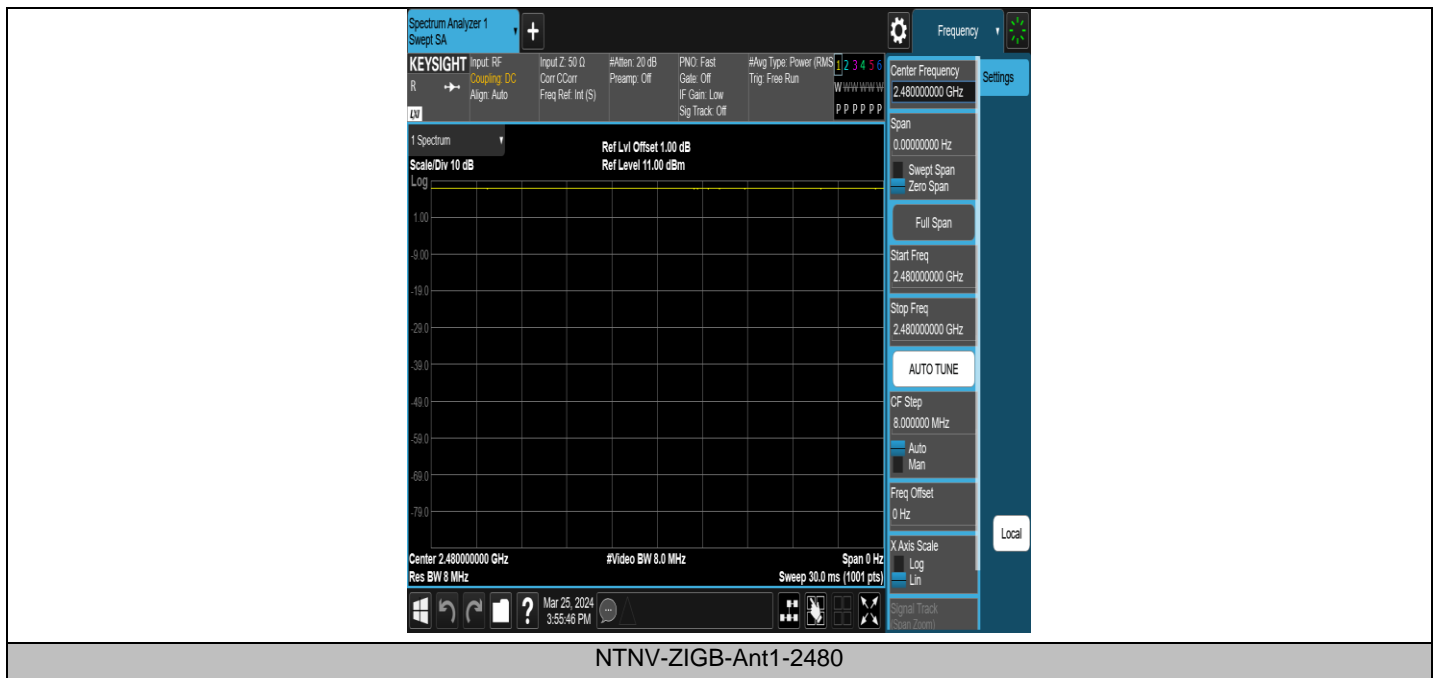
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
ZIGB	Ant1	2405	0.00	0.00	100
ZIGB	Ant1	2440	0.00	0.00	100
ZIGB	Ant1	2480	0.00	0.00	100



NTNV-ZIGB-Ant1-2405

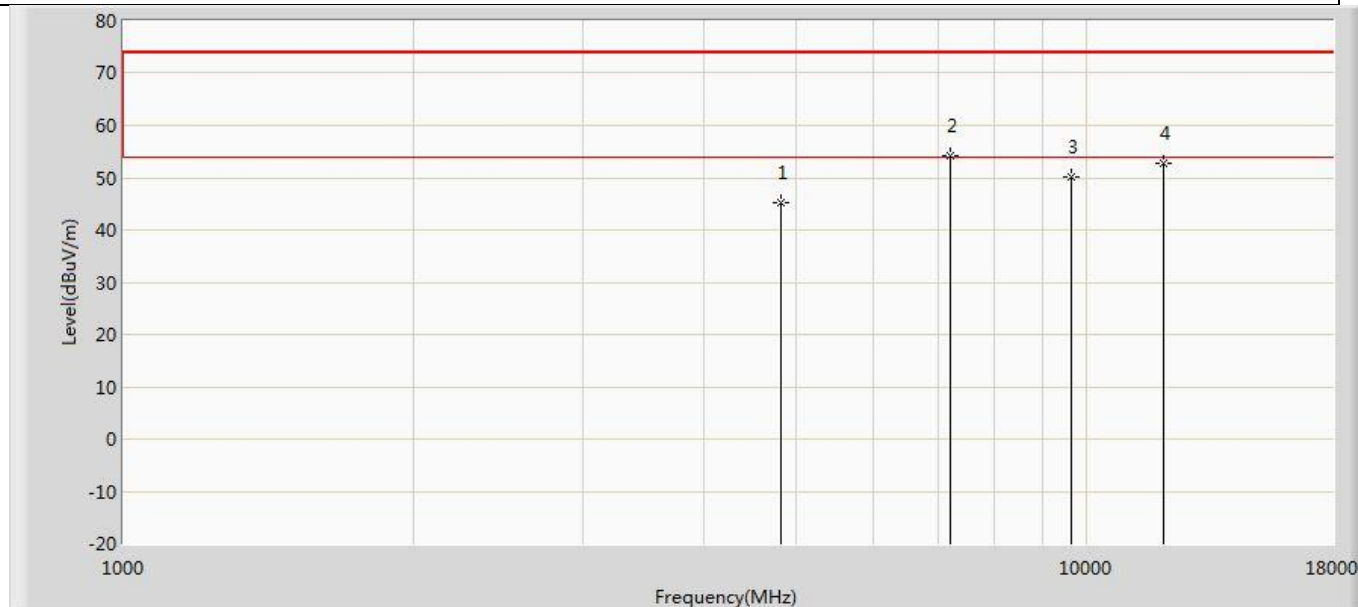


NTNV-ZIGB-Ant1-2440



Appendix H: Emissions in Restricted Bands

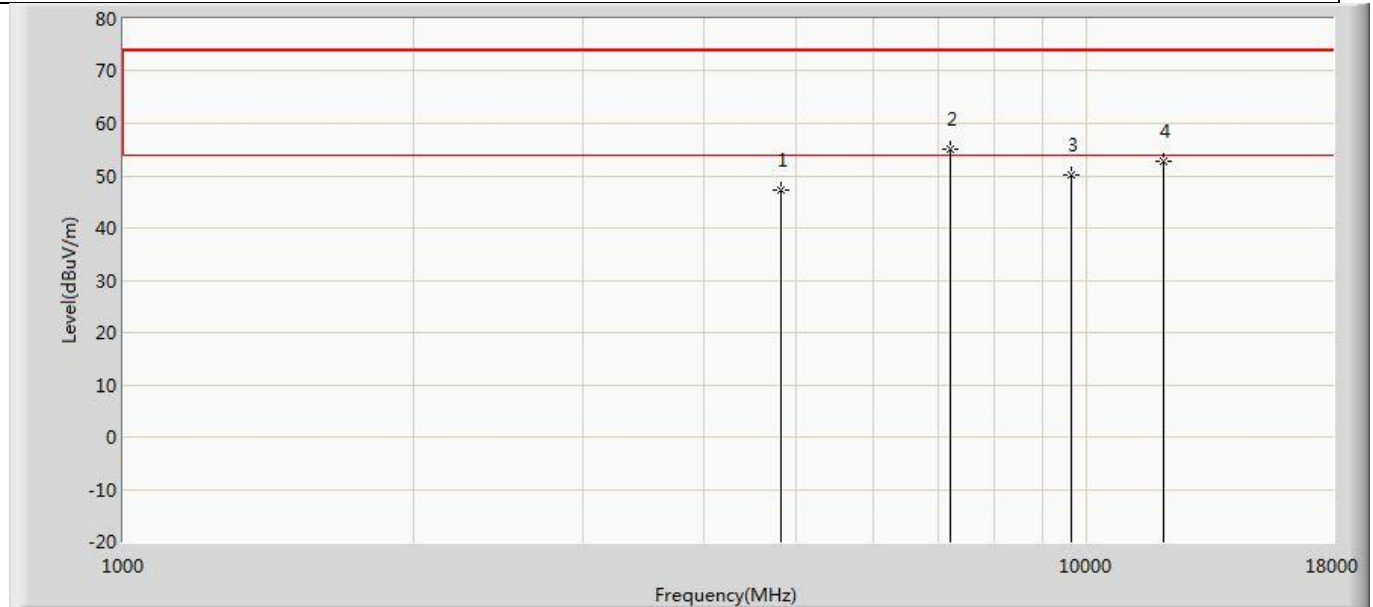
Profile: 2420245R	Page No.: 40
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/03/07 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	45.333	57.205	-28.667	74.000	-11.873	PK
2	*	7205.000	54.298	60.448	N/A	N/A	-6.150	PK
3		9620.000	50.065	53.820	-23.935	74.000	-3.755	PK
4		12025.000	52.616	51.539	-21.384	74.000	1.077	PK

Note: The No. 2 is non-restricted bands, so the limit is Fundamental emission down 20dB, and then we evaluated each channel, it complies with the RSE requirements.

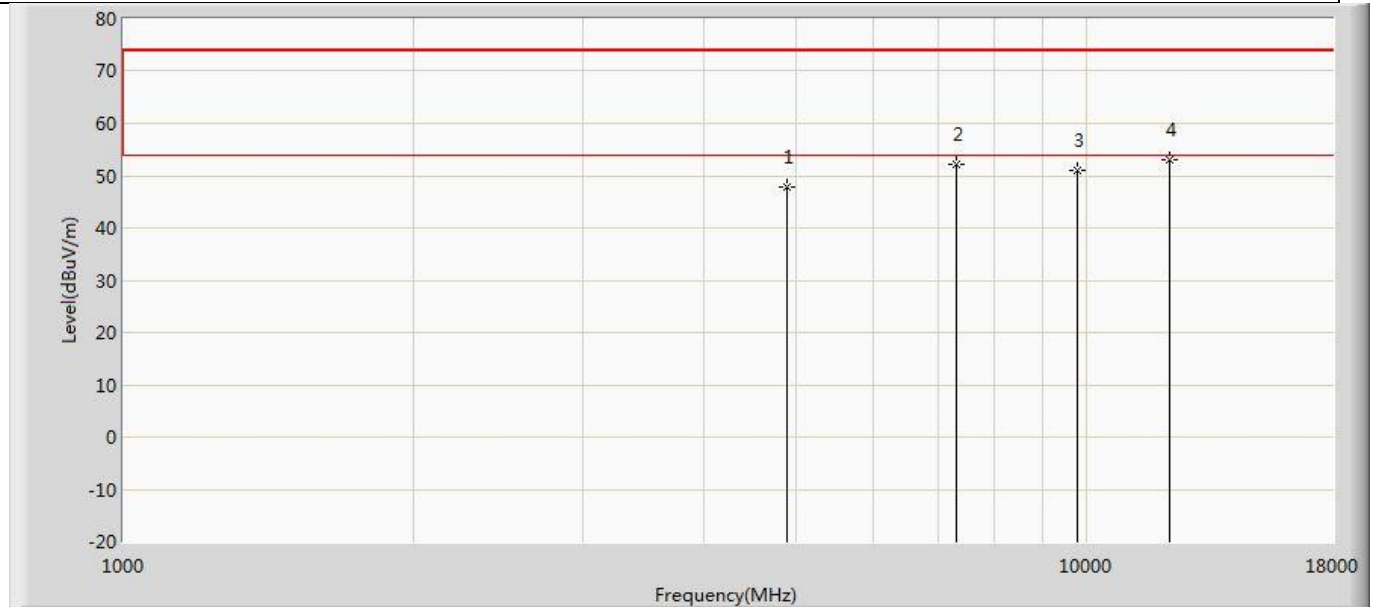
Profile: 2420245R	Page No.: 41
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/03/07 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4808.000	47.193	59.059	-26.807	74.000	-11.866	PK
2	*	7222.000	55.125	61.543	N/A	N/A	-6.418	PK
3		9620.000	50.217	53.972	-23.783	74.000	-3.755	PK
4		12025.000	52.881	51.804	-21.119	74.000	1.077	PK

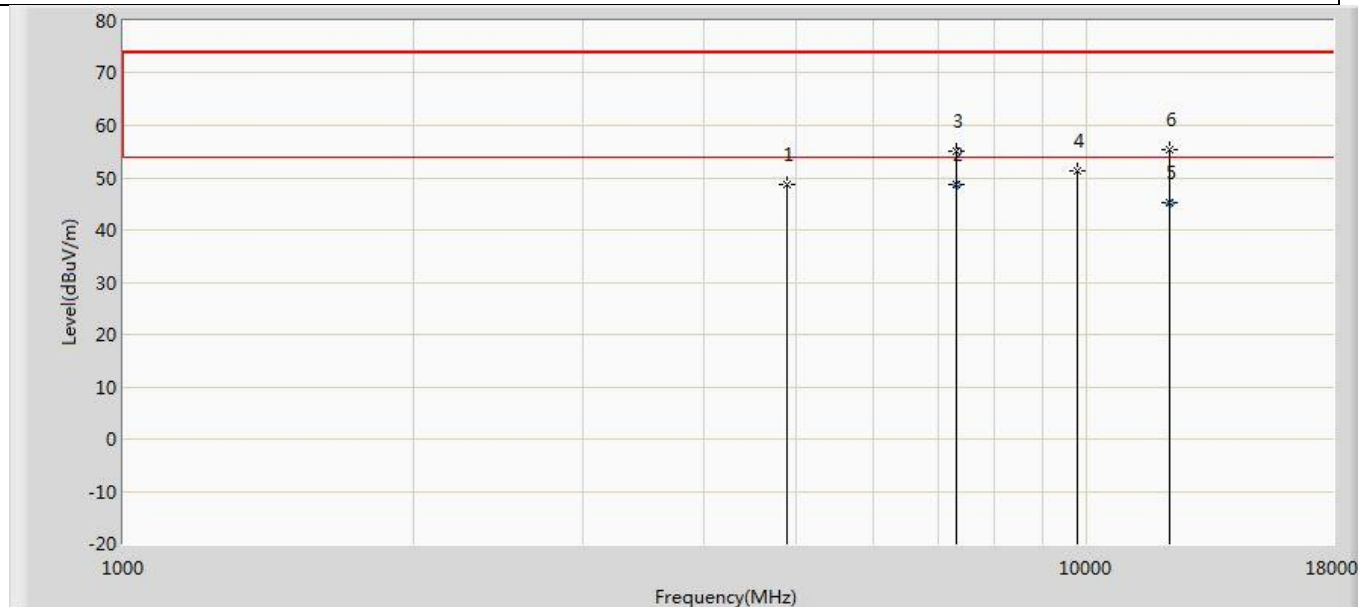
Note: The No. 2 is non-restricted bands, so the limit is Fundamental emission down 20dB, and then we evaluated each channel, it is complie with the RSE requirements.

Profile: 2420245R	Page No.: 42
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/03/07 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



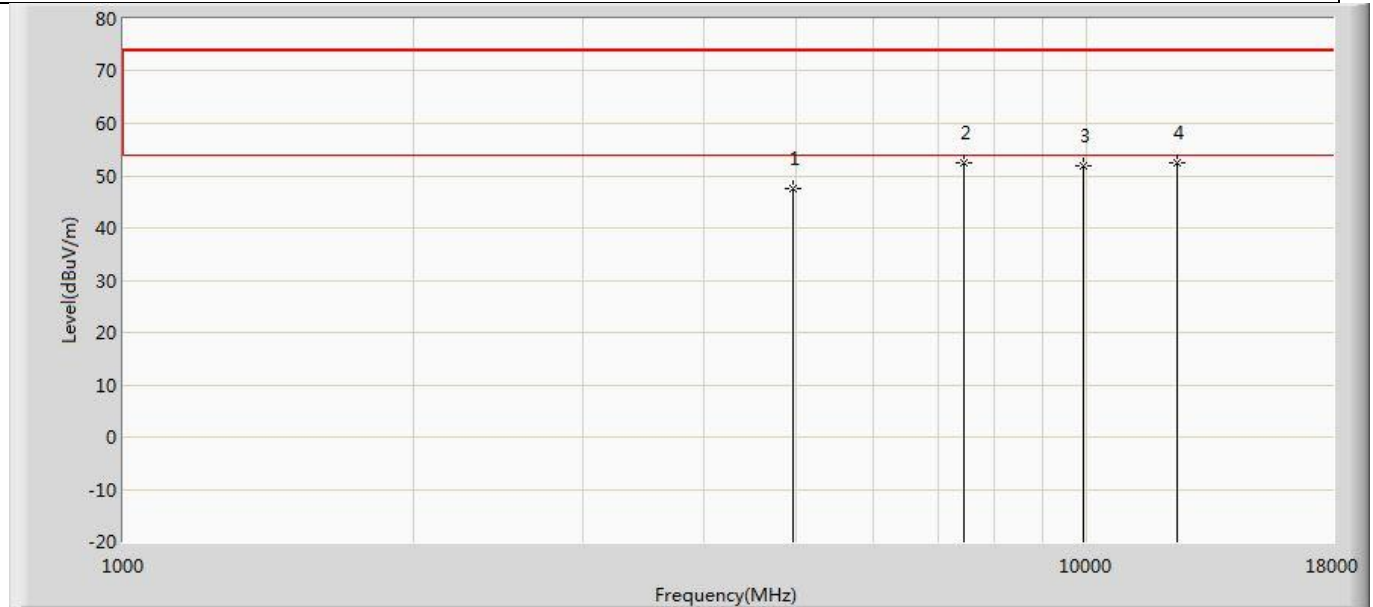
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	47.818	58.245	-26.182	74.000	-10.427	PK
2		7324.000	52.289	59.124	-21.711	74.000	-6.835	PK
3		9760.000	51.120	53.993	-22.880	74.000	-2.874	PK
4	*	12200.000	53.104	52.183	-20.896	74.000	0.921	PK

Profile: 2420245R	Page No.: 43
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/03/07 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



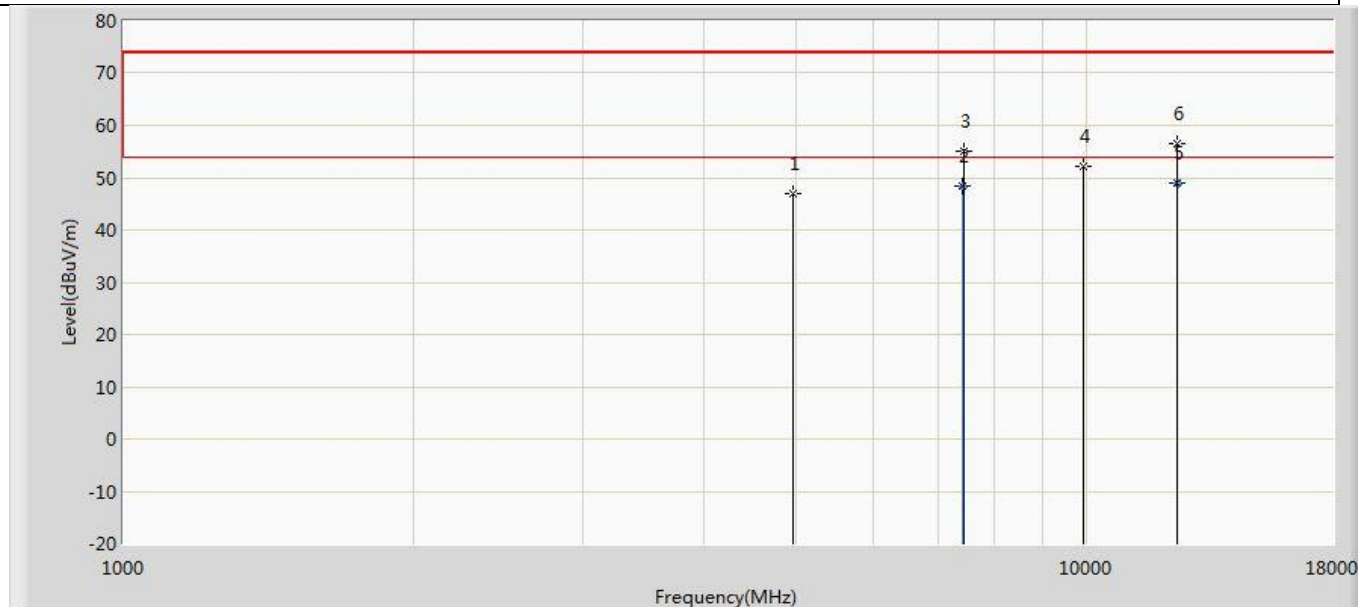
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	48.729	59.156	-25.271	74.000	-10.427	PK
2	*	7321.640	48.791	55.680	-5.209	54.000	-6.890	AV
3		7324.000	55.160	61.995	-18.840	74.000	-6.835	PK
4		9760.000	51.201	54.074	-22.799	74.000	-2.874	PK
5		12197.220	45.307	44.420	-8.693	54.000	0.887	AV
6		12203.000	55.407	54.450	-18.593	74.000	0.957	PK

Profile: 2420245R	Page No.: 44
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/03/07 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	47.647	58.318	-26.353	74.000	-10.671	PK
2		7443.000	52.348	59.105	-21.652	74.000	-6.757	PK
3		9920.000	51.975	53.797	-22.025	74.000	-1.821	PK
4	*	12400.000	52.545	49.871	-21.455	74.000	2.674	PK

Profile: 2420245R	Page No.: 45
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/03/07 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: AC 120V/60Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



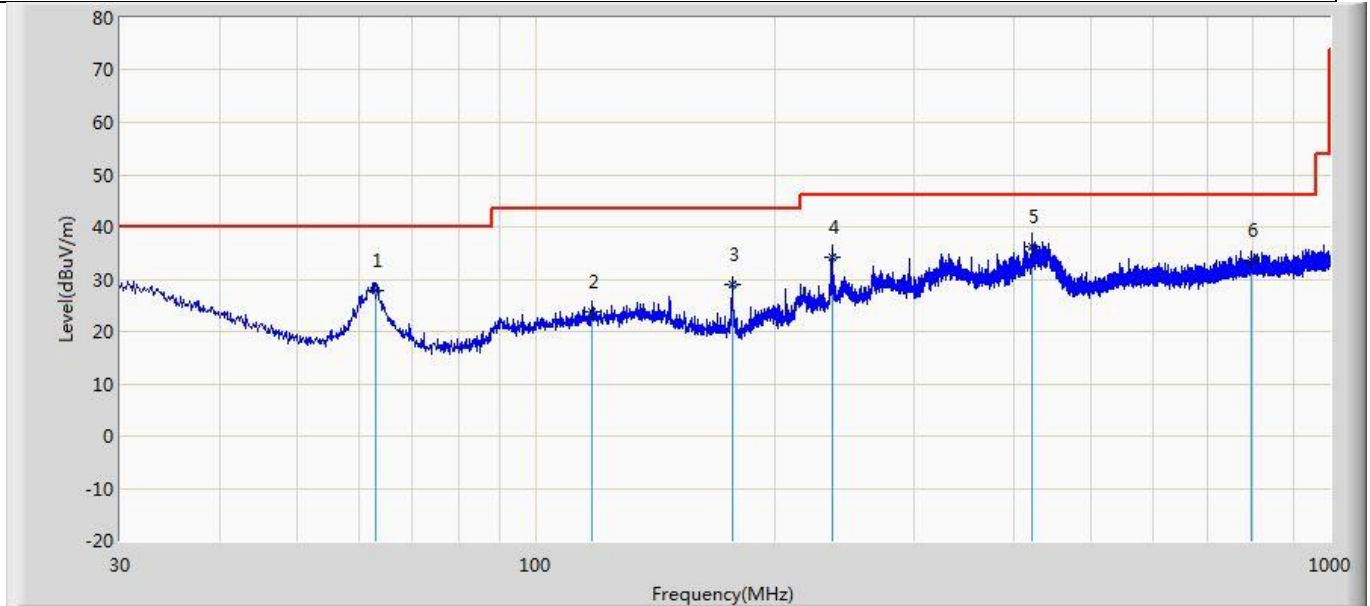
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4961.000	46.850	57.521	-27.150	74.000	-10.671	PK
2		7438.520	48.361	55.150	-5.639	54.000	-6.789	AV
3		7443.000	54.954	61.711	-19.046	74.000	-6.757	PK
4		9920.000	52.154	53.976	-21.846	74.000	-1.821	PK
5	*	12402.780	48.913	46.130	-5.087	54.000	2.783	AV
6		12407.000	56.448	53.499	-17.552	74.000	2.949	PK

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
3. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.
4. If the test result on peak is lower than average limit, then average measurement needn't be performed.

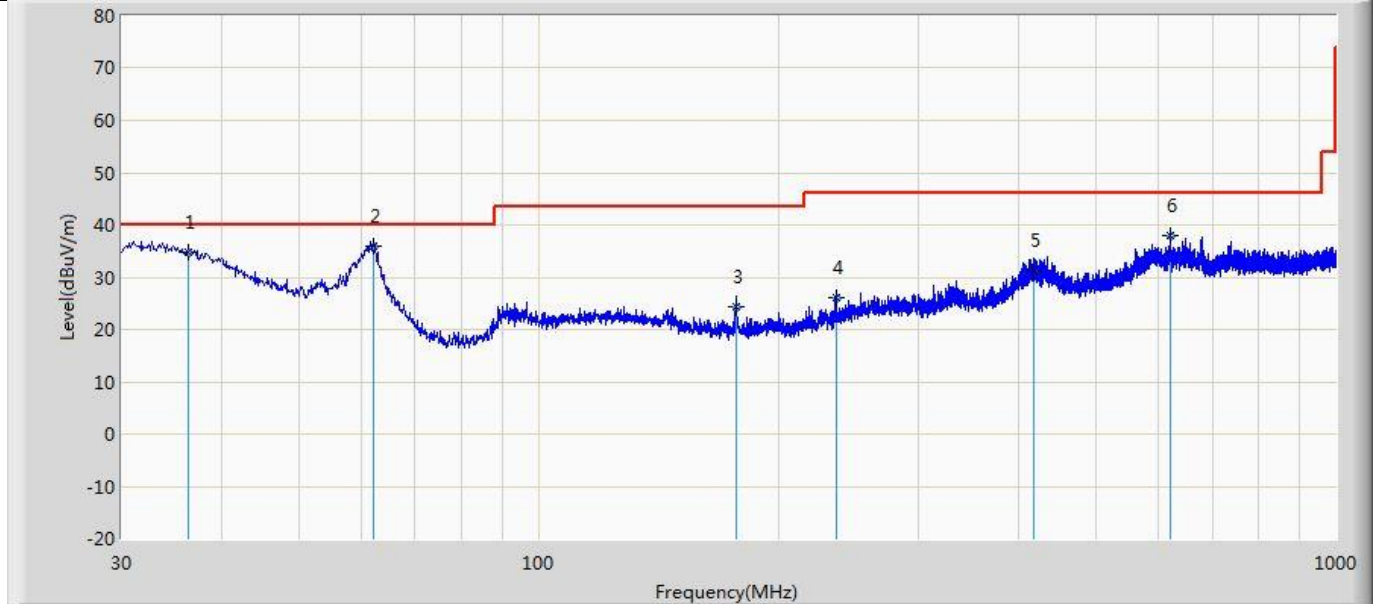
The worst case of Radiated Emission below 1GHz :

Profile: 2420145R	Page No.: 113
Engineer: Pengchengyang	
Site: AC2	Time: 2024/03/27 - 07:58
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		62.980	27.820	14.834	-12.180	40.000	12.986	QP
2		118.027	23.667	4.360	-19.833	43.500	19.307	QP
3		177.076	28.872	12.345	-14.628	43.500	16.527	QP
4		236.004	34.164	15.886	-11.836	46.000	18.278	QP
5	*	422.608	36.367	12.278	-9.633	46.000	24.089	QP
6		797.634	33.613	4.239	-12.387	46.000	29.374	QP

Profile: 2420145R	Page No.: 114
Engineer: Pengchengyang	
Site: AC2	Time: 2024/03/27 - 07:59
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



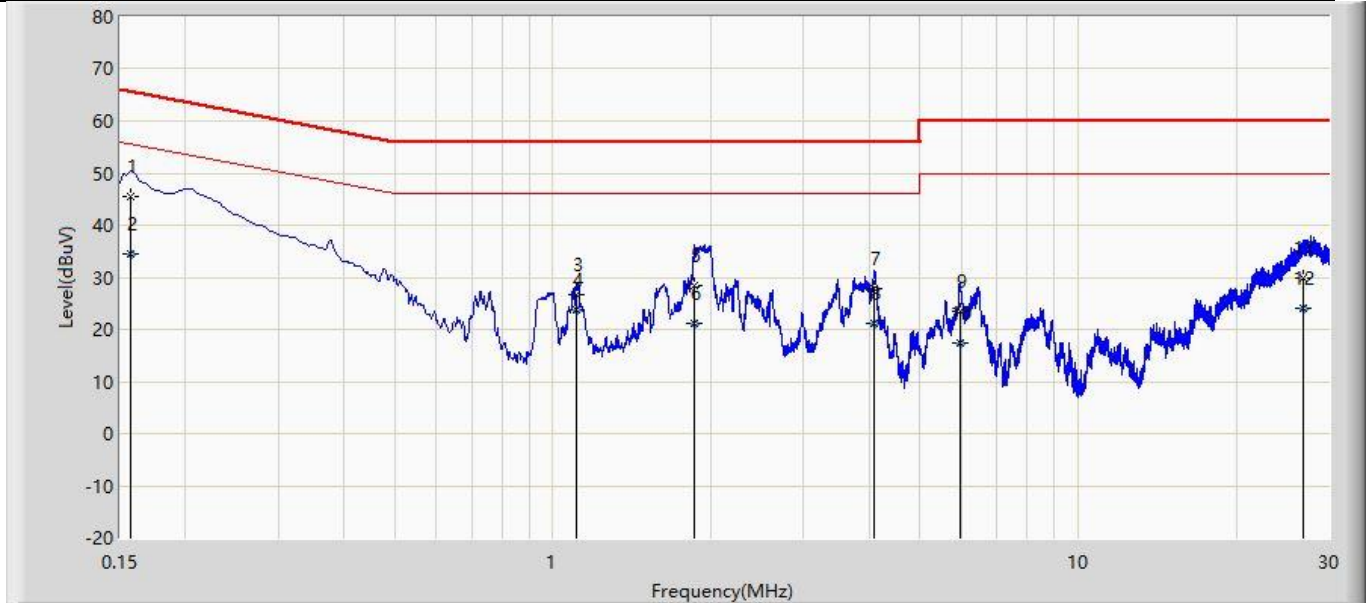
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		36.305	34.861	13.240	-5.139	40.000	21.621	QP
2	*	62.010	35.810	22.780	-4.190	40.000	13.030	QP
3		176.955	24.462	7.931	-19.038	43.500	16.531	QP
4		236.004	25.980	7.702	-20.020	46.000	18.278	QP
5		418.849	31.237	7.222	-14.763	46.000	24.015	QP
6		619.881	37.910	10.637	-8.090	46.000	27.272	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

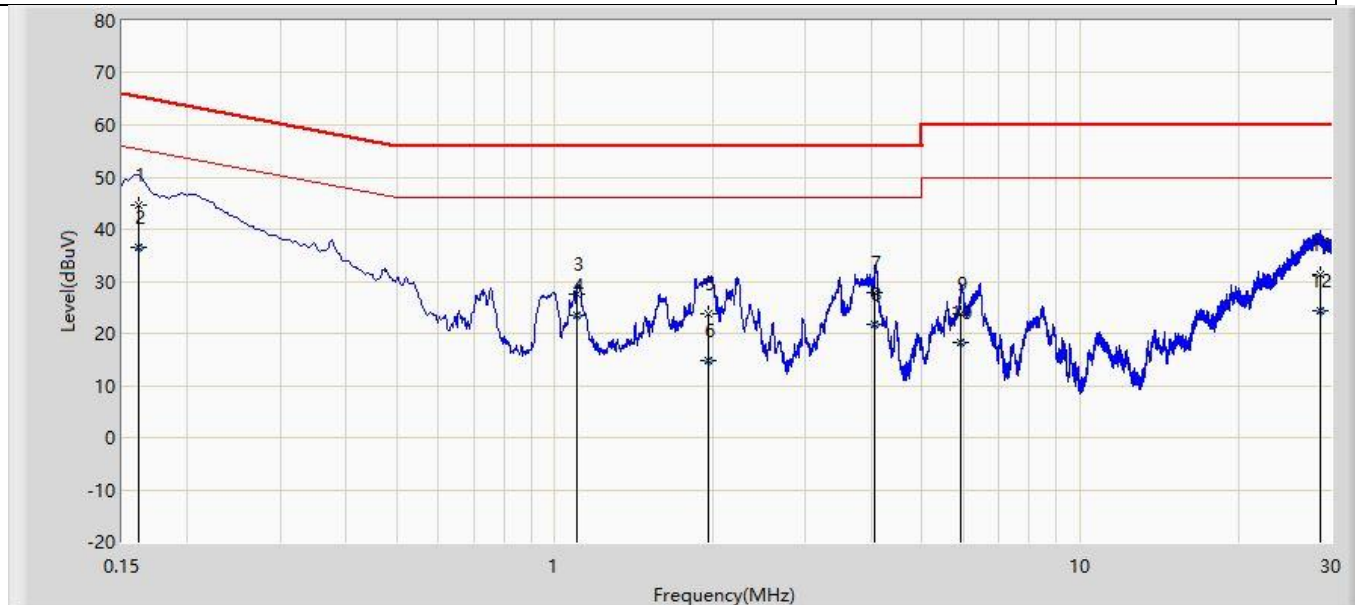
Appendix I: AC Power Line Conducted Emission

Profile: 2420145R	Page No.: 39
Engineer: Pengchengyang	
Site: TR1	Time: 2024/03/27 - 07:30
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.157	45.377	35.752	-20.258	65.634	9.624	QP
2		0.157	34.370	24.746	-21.264	55.634	9.624	AV
3		1.109	26.681	17.008	-29.319	56.000	9.673	QP
4		1.109	23.771	14.098	-22.229	46.000	9.673	AV
5		1.858	28.357	18.666	-27.643	56.000	9.691	QP
6		1.858	21.125	11.434	-24.875	46.000	9.691	AV
7		4.076	27.731	17.990	-28.269	56.000	9.741	QP
8		4.076	21.088	11.347	-24.912	46.000	9.741	AV
9		5.964	23.375	13.588	-36.625	60.000	9.788	QP
10		5.964	17.429	7.642	-32.571	50.000	9.788	AV
11		26.758	29.884	19.806	-30.116	60.000	10.078	QP
12		26.758	24.029	13.951	-25.971	50.000	10.078	AV

Profile: 2420145R	Page No.: 40
Engineer: Pengchengyang	
Site: TR1	Time: 2024/03/27 - 07:31
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: LED lamp	Power: 120 Vac / 60 Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.161	44.739	35.108	-20.661	65.399	9.630	QP
2	*	0.161	36.434	26.804	-18.965	55.399	9.630	AV
3		1.102	27.563	17.890	-28.437	56.000	9.673	QP
4		1.102	23.561	13.888	-22.439	46.000	9.673	AV
5		1.961	23.853	14.159	-32.147	56.000	9.694	QP
6		1.961	14.647	4.953	-31.353	46.000	9.694	AV
7		4.069	27.829	18.078	-28.171	56.000	9.751	QP
8		4.069	21.767	12.016	-24.233	46.000	9.751	AV
9		5.930	23.900	14.108	-36.100	60.000	9.792	QP
10		5.930	18.225	8.433	-31.775	50.000	9.792	AV
11		28.680	31.436	21.318	-28.564	60.000	10.118	QP
12		28.680	24.447	14.329	-25.553	50.000	10.118	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

The End