

## Appendix B: Test Results of FCC 15B & ICES-003

<b>APPENDIX B: TEST RESULTS OF FCC 15B &amp; ICES-003</b> .....	<b>1</b>
<b>APPENDIX B.1: TEST PLOTS OF RADIATED EMISSION, BELOW 1GHZ</b> .....	<b>2</b>
<i>BT+NB+Normal Operating+LED on (AC power)</i> .....	2
<i>BT+NB+Normal Operating+LED on (Battery)</i> .....	3
<i>BT+GPRS+Normal Operating+LED on (AC power)</i> .....	4
<i>BT+GPRS+Normal Operating+LED on (Battery)</i> .....	5
<i>BT+EMTC+Normal Operating+LED on (AC power)</i> .....	6
<i>BT+EMTC+Normal Operating+LED on (Battery)</i> .....	7
<b>APPENDIX B.2: TEST PLOTS OF RADIATED EMISSION, ABOVE 1GHZ</b> .....	<b>8</b>
<i>BT+NB+Normal Operating+LED on (AC power)</i> .....	8
<i>BT+NB+Normal Operating+LED on (Battery)</i> .....	10
<i>BT+GPRS+Normal Operating+LED on (AC power)</i> .....	12
<i>BT+GPRS+Normal Operating+LED on (Battery)</i> .....	14
<i>BT+EMTC+Normal Operating+LED on (AC power)</i> .....	16
<i>BT+EMTC+Normal Operating+LED on (Battery)</i> .....	18
<b>APPENDIX B.3: TEST PLOTS OF CONDUCTED EMISSIONS ON AC MAINS</b> .....	<b>20</b>
<i>BT+NB+Normal Operating+LED on</i> .....	20
<i>BT+GPRS+Normal Operating+LED on</i> .....	22
<i>BT+EMTC+Normal Operating+LED on</i> .....	24

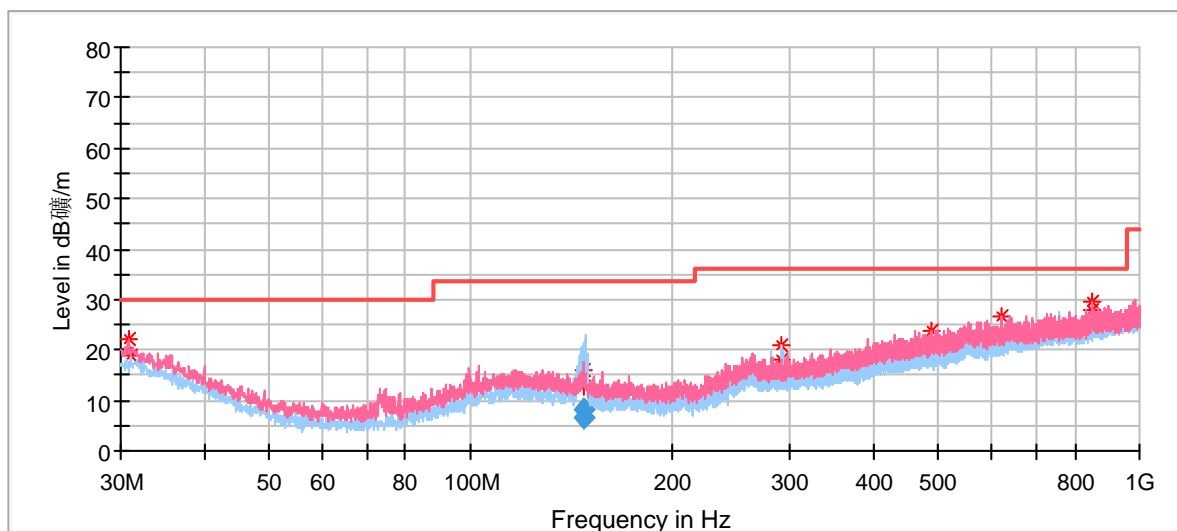
## Appendix B.1: Test Plots of Radiated Emission, Below 1GHz

Note: The following illustration shows the limit that meet the FCC requirements, and these measured value also comply with IC requirements.

*BT+NB+Normal Operating+LED on (AC power)*

### EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010
Model:	ZL-ODIN-V1
Test Mode:	BT Link+NB Link+Normal Operation+LED on
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.754444	22.12	30.00	7.88	300.0	V	129.0	-4.6
31.023889	18.69	30.00	11.31	100.0	H	339.0	-12.0
147.341667	12.60	33.50	20.90	255.0	H	107.0	-18.3
147.627222	15.85	33.50	17.65	186.0	V	236.0	-11.3
290.930000	17.93	36.00	18.07	200.0	V	304.0	-8.3
292.223333	20.84	36.00	15.16	200.0	H	0.0	-15.1
486.385000	20.95	36.00	15.05	200.0	H	192.0	-10.5
488.378889	23.86	36.00	12.14	100.0	V	171.0	-3.4
620.514444	26.69	36.00	9.31	100.0	V	33.0	-1.8
621.268889	23.02	36.00	12.98	300.0	H	62.0	-8.3
847.763889	27.79	36.00	8.21	100.0	H	0.0	-5.0
851.590000	29.63	36.00	6.37	100.0	V	249.0	0.4

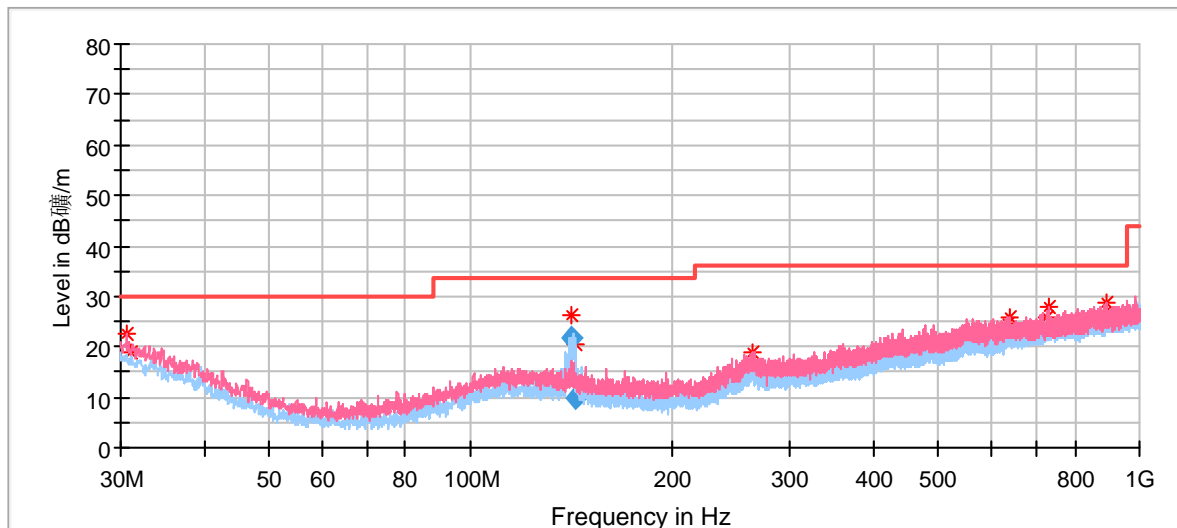
### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
147.341667	6.67	33.50	26.83	1000.0	120.000	255.0	H	107.0	-18.2
147.627222	8.25	33.50	25.25	1000.0	120.000	186.0	V	236.0	-11.3

BT+NB+Normal Operating+LED on (Battery)

### EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010  
 Model: ZL-ODIN-V1  
 Test Mode: BT Link+NB Link+Normal Operation+LED on  
 Test Voltage: Battery  
 Test By: Shower Dai  
 Review By: Gary Chen



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.592778	22.51	30.00	7.49	300.0	V	218.0	-4.5
31.131667	18.91	30.00	11.09	300.0	H	0.0	-12.1
141.422778	26.13	33.50	7.37	324.0	H	177.0	-17.9
143.155000	20.47	33.50	13.03	136.0	V	68.0	-10.9
263.770000	18.77	36.00	17.23	200.0	V	283.0	-7.3
263.877778	16.42	36.00	19.58	100.0	H	238.0	-14.2
636.681111	24.61	36.00	11.39	200.0	H	261.0	-7.6
638.136111	25.72	36.00	10.28	300.0	V	0.0	-1.3
729.154444	25.90	36.00	10.10	300.0	H	156.0	-6.3
730.016667	27.81	36.00	8.19	300.0	V	354.0	-1.0
889.635556	26.84	36.00	9.16	100.0	H	165.0	-4.4
891.845000	28.73	36.00	7.27	100.0	V	85.0	0.9

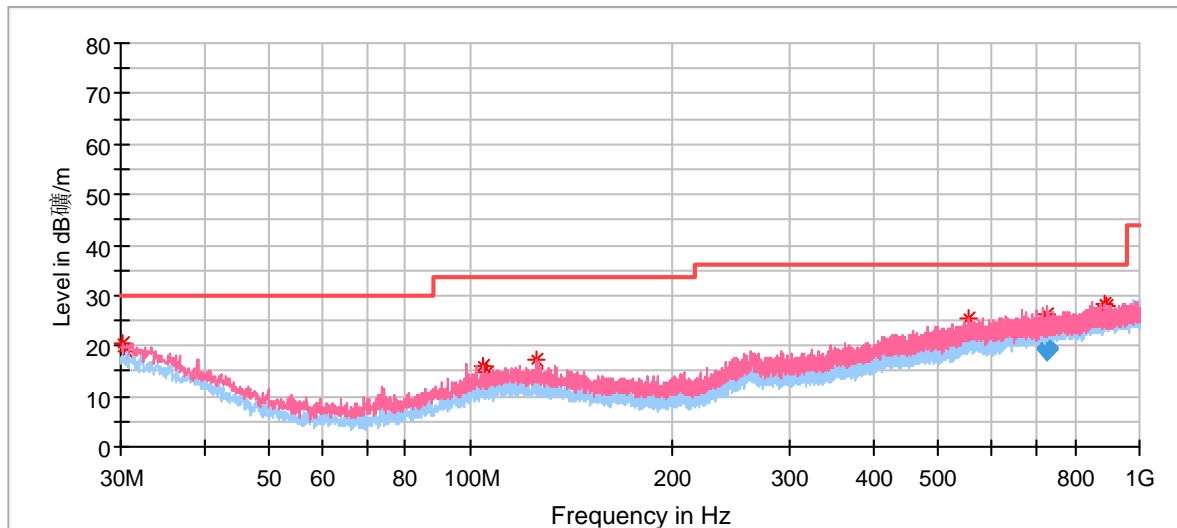
### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
141.422778	21.70	33.50	11.80	1000.0	120.000	324.0	H	177.0	-17.8
143.155000	9.68	33.50	23.82	1000.0	120.000	136.0	V	68.0	-10.9

BT+GPRS+Normal Operating+LED on (AC power)

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010
Model:	ZL-ODIN-V1
Test Mode:	BT Link+GPRS Link+Normal Operation+LED on
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.269444	20.52	30.00	9.48	200.0	V	0.0	-4.3
30.538889	18.94	30.00	11.06	200.0	H	92.0	-11.8
104.474444	16.12	33.50	17.38	100.0	V	13.0	-11.0
105.660000	14.69	33.50	18.81	300.0	H	84.0	-17.8
125.491111	14.45	33.50	19.05	100.0	H	203.0	-17.1
125.760556	17.29	33.50	16.21	100.0	V	276.0	-10.2
555.578333	22.46	36.00	13.54	100.0	H	327.0	-8.6
555.740000	25.41	36.00	10.59	100.0	V	47.0	-1.6
728.243333	26.41	36.00	9.59	103.0	V	35.0	-1.1
729.135556	25.44	36.00	10.56	303.0	H	207.0	-6.3
889.420000	28.23	36.00	7.77	200.0	V	0.0	0.9
890.066667	27.79	36.00	8.21	300.0	H	178.0	-4.4

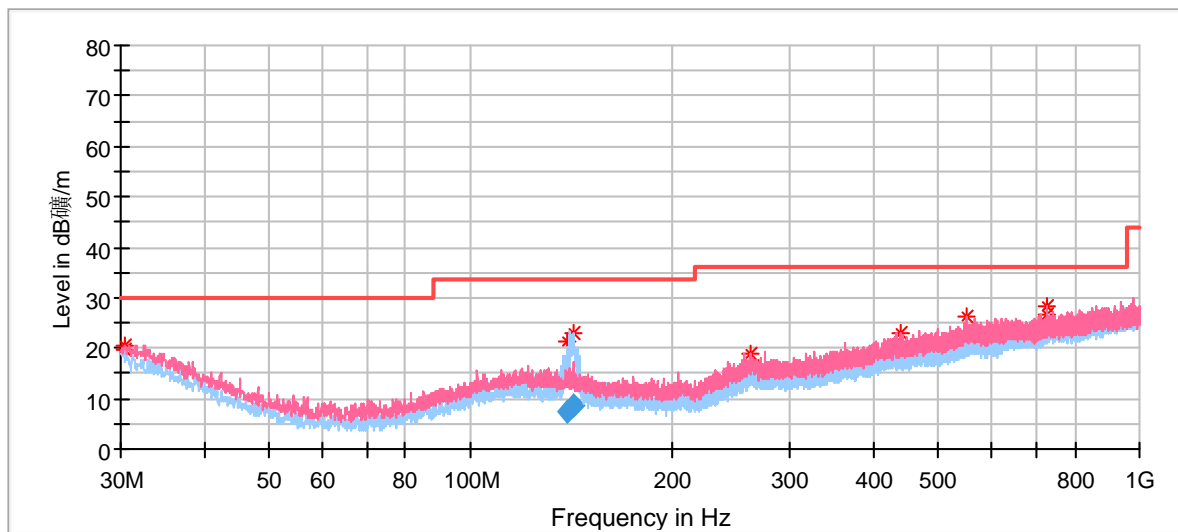
## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
728.243333	19.52	36.00	16.48	1000.0	120.000	103.0	V	35.0	-1.1
729.135556	19.22	36.00	16.78	1000.0	120.000	303.0	H	207.0	-6.3

BT+GPRS+Normal Operating+LED on (Battery)

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010
Model:	ZL-ODIN-V1
Test Mode:	BT Link+GPRS Link+Normal Operation+LED on
Test Voltage:	Battery
Test By:	Shower Dai
Review By:	Gary Chen



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.323333	20.41	30.00	9.59	300.0	V	313.0	-4.3
30.377222	19.71	30.00	10.29	200.0	H	277.0	-11.7
139.891111	21.42	33.50	12.08	194.0	H	184.0	-17.8
142.707778	23.09	33.50	10.41	150.0	V	166.0	-10.9
262.800000	18.78	36.00	17.22	300.0	V	108.0	-7.3
263.446667	16.21	36.00	19.79	300.0	H	174.0	-14.2
439.878889	22.95	36.00	13.05	200.0	V	318.0	-4.4
439.932778	19.62	36.00	16.38	200.0	H	0.0	-11.4
550.620556	21.48	36.00	14.52	100.0	H	201.0	-8.7
550.674444	26.38	36.00	9.62	300.0	V	235.0	-1.7
728.992778	28.27	36.00	7.73	100.0	V	161.0	-1.1
729.585556	26.63	36.00	9.37	100.0	H	46.0	-6.3

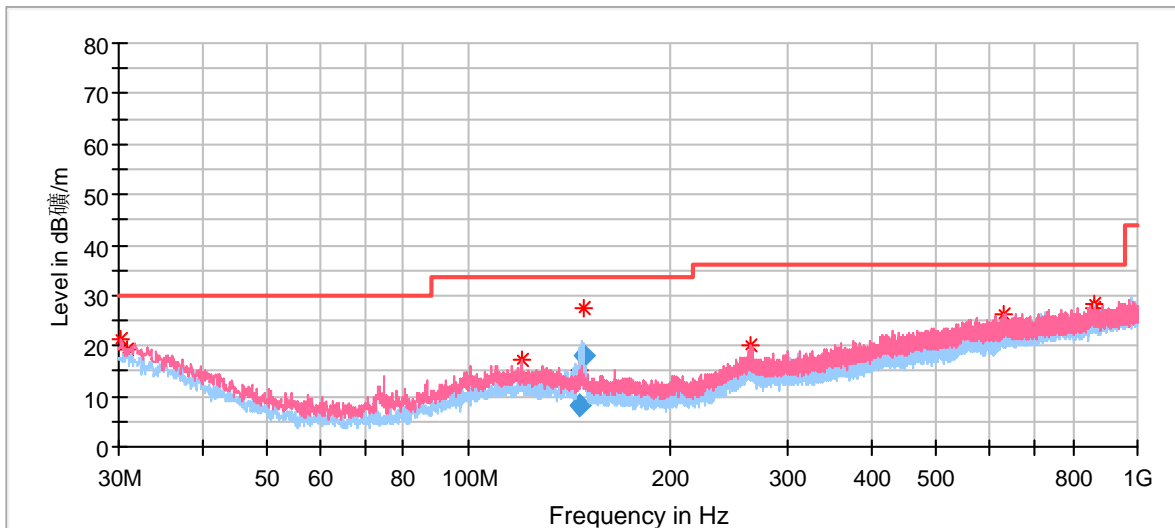
## Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
139.891111	7.37	33.50	26.13	1000.0	120.000	194.0	H	184.0	-17.8
142.707778	8.56	33.50	24.94	1000.0	120.000	150.0	V	166.0	-10.9

BT+EMTC+Normal Operating+LED on (AC power)

### EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010
Model:	ZL-ODIN-V1
Test Mode:	BT Link+EMTC Link+Normal Operation+LED on
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.269444	21.22	30.00	8.78	300.0	V	48.0	-4.3
30.808333	19.45	30.00	10.55	200.0	H	204.0	-11.9
119.886667	17.14	33.50	16.36	200.0	V	1.0	-9.9
120.048333	13.53	33.50	19.97	200.0	H	322.0	-16.8
147.162778	15.30	33.50	18.20	142.0	V	204.0	-11.4
148.548889	27.43	33.50	6.07	350.0	H	164.0	-18.3
263.823889	16.20	36.00	19.80	300.0	H	48.0	-14.2
263.931667	20.04	36.00	15.96	200.0	V	142.0	-7.3
630.968889	26.42	36.00	9.58	100.0	V	0.0	-1.3
631.292222	22.06	36.00	13.94	100.0	H	219.0	-7.8
860.373889	28.11	36.00	7.89	300.0	H	56.0	-4.7
860.481667	27.69	36.00	8.31	200.0	V	191.0	0.6

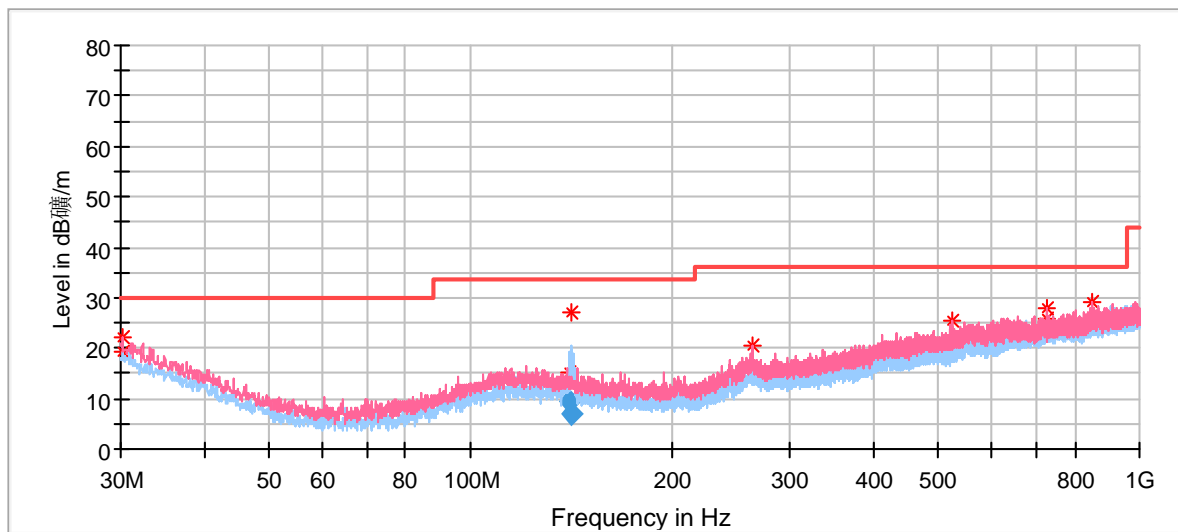
### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
147.162778	8.33	33.50	25.17	1000.0	120.000	142.0	V	204.0	-11.2
148.548889	18.23	33.50	15.27	1000.0	120.000	350.0	H	164.0	-18.3

BT+EMTC+Normal Operating+LED on (Battery)

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010
Model:	ZL-ODIN-V1
Test Mode:	BT Link+EMTC Link+Normal Operation+LED on
Test Voltage:	Battery
Test By:	Shower Dai
Review By:	Gary Chen



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.161667	22.05	30.00	7.95	100.0	V	171.0	-4.2
30.215556	19.21	30.00	10.79	100.0	H	235.0	-11.6
140.950000	15.36	33.50	18.14	121.0	V	182.0	-10.9
141.285556	27.18	33.50	6.32	328.0	H	166.0	-17.9
263.662222	20.57	36.00	15.43	200.0	V	19.0	-7.3
264.470556	15.95	36.00	20.05	300.0	H	342.0	-14.3
526.047222	25.29	36.00	10.71	200.0	V	84.0	-3.0
526.693889	20.05	36.00	15.95	200.0	H	172.0	-10.1
729.154444	25.67	36.00	10.33	200.0	H	221.0	-6.3
729.370000	27.75	36.00	8.25	200.0	V	154.0	-1.1
847.332778	26.05	36.00	9.95	100.0	H	104.0	-5.0
847.386667	29.03	36.00	6.97	300.0	V	346.0	0.4

## Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
140.950000	9.34	33.50	24.16	1000.0	120.000	121.0	V	182.0	-10.8
141.285556	6.98	33.50	26.52	1000.0	120.000	328.0	H	166.0	-17.8

## Appendix B.2: Test Plots of Radiated Emission, Above 1GHz

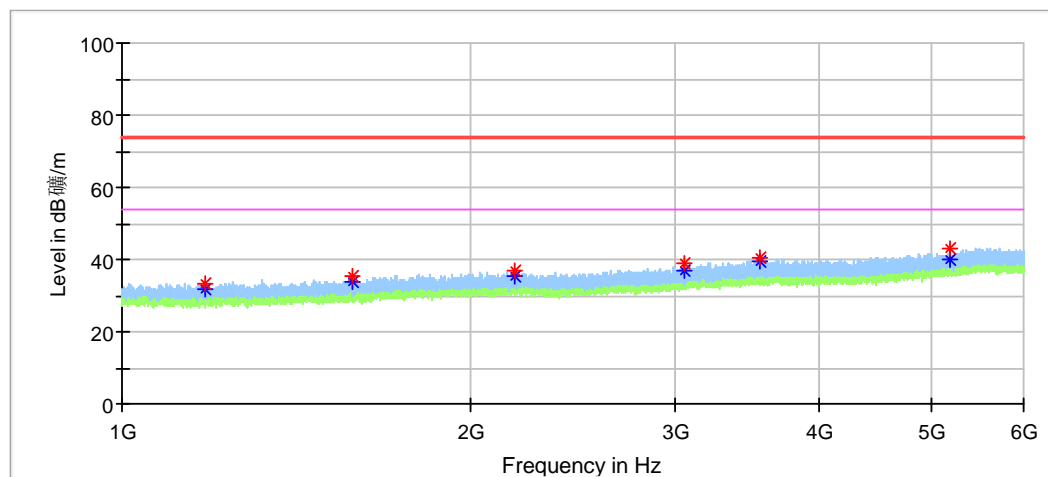
Note: Testing was carried out within frequency range 30MHz to the 5<sup>th</sup> harmonics. The measurement results above 6GHz were greater than 20dB below the limit, so only record the test result within the 30MHz to 6GHz.

BT+NB+Normal Operating+LED on (AC power)

# Test Report

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010 10
Model:	Amazon
Test Mode:	BT Link+NB Link+Normal Operation+LED on
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	10m Chamber



## Critical\_Freqs

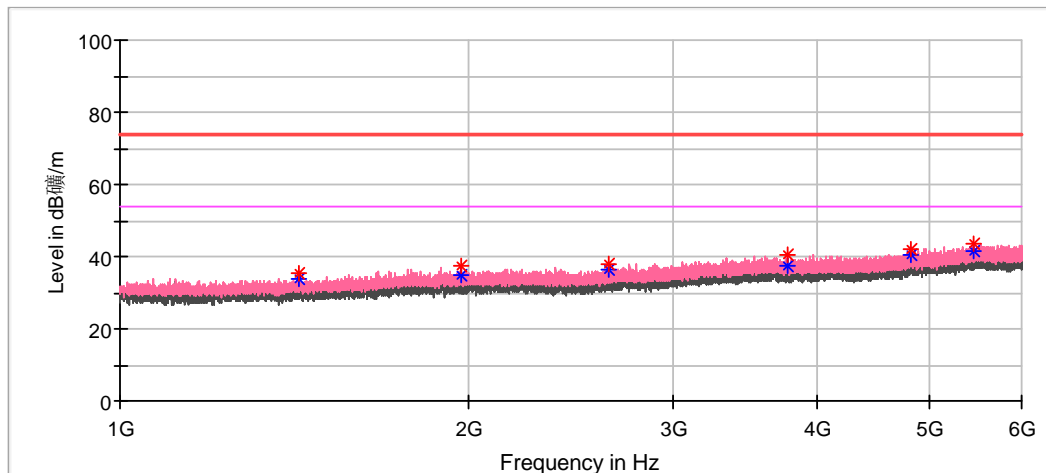
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
1179.791667	---	31.72	54.00	22.28	100.0	H	216.0
1179.791667	33.58	---	74.00	40.42	100.0	H	216.0
1578.333333	---	33.77	54.00	20.23	100.0	H	245.0
1578.333333	35.56	---	74.00	38.44	100.0	H	245.0
2181.875000	---	35.26	54.00	18.74	100.0	H	178.0
2181.875000	36.72	---	74.00	37.28	100.0	H	178.0
3053.958333	---	36.85	54.00	17.15	200.0	H	334.0
3053.958333	38.94	---	74.00	35.06	200.0	H	334.0
3547.708333	---	39.43	54.00	14.57	200.0	H	134.0
3547.708333	40.39	---	74.00	33.61	200.0	H	134.0
5174.375000	---	39.96	54.00	14.04	200.0	H	186.0
5174.375000	43.09	---	74.00	30.91	200.0	H	186.0



# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+NB Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



## Critical\_Freqs

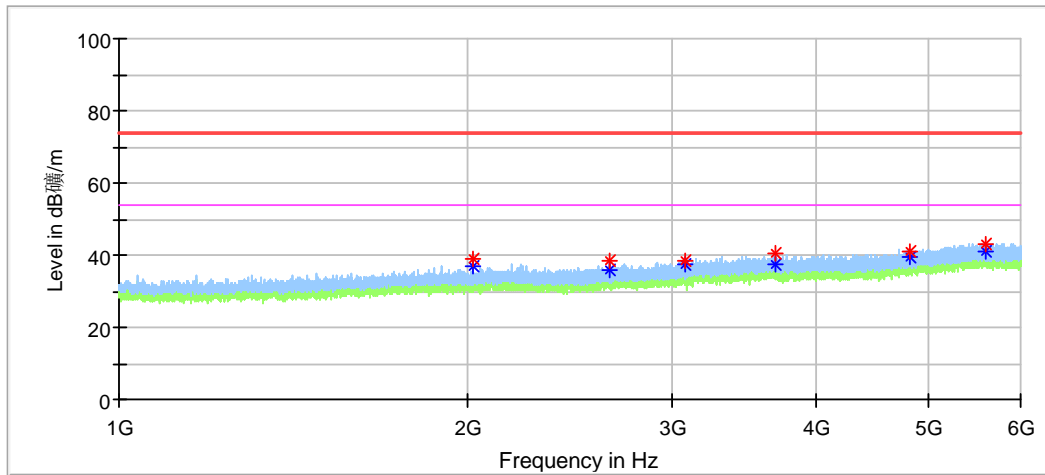
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
1425.208333	35.39	---	74.00	38.61	200.0	V	12.0
1425.208333	---	33.90	54.00	20.10	200.0	V	12.0
1967.083333	---	34.78	54.00	19.22	100.0	V	145.0
1967.083333	37.36	---	74.00	36.64	100.0	V	145.0
2643.125000	---	36.61	54.00	17.39	100.0	V	0.0
2643.125000	37.91	---	74.00	36.09	100.0	V	0.0
3773.333333	---	37.51	54.00	16.49	100.0	V	176.0
3773.333333	40.30	---	74.00	33.70	200.0	V	0.0
4819.166667	---	40.44	54.00	13.56	200.0	V	290.0
4819.166667	41.82	---	74.00	32.18	200.0	V	290.0
5452.500000	---	41.62	54.00	12.38	100.0	V	64.0
5452.500000	43.45	---	74.00	30.55	100.0	V	64.0

BT+NB+Normal Operating+LED on (Battery)

# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+NB Link+Normal Operation+LED on  
 Test Voltage: Battery  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



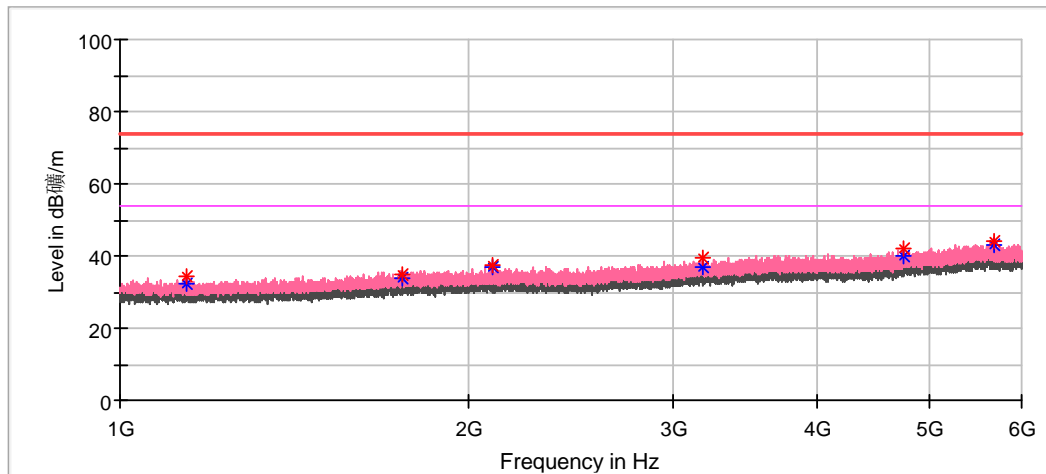
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)
2019.583333	---	37.11	54.00	16.89	200.0	H	105.0
2019.583333	39.03	---	74.00	34.97	200.0	H	105.0
2648.958333	---	35.77	54.00	18.23	100.0	H	289.0
2648.958333	38.27	---	74.00	35.73	100.0	H	289.0
3084.791667	---	37.41	54.00	16.59	200.0	H	204.0
3084.791667	38.53	---	74.00	35.47	200.0	H	204.0
3682.291667	40.68	---	74.00	33.32	200.0	H	49.0
3682.500000	---	37.23	54.00	16.77	100.0	H	289.0
4812.083333	40.96	---	74.00	33.04	200.0	H	301.0
4812.083333	---	39.42	54.00	14.58	200.0	H	301.0
5604.166667	---	41.11	54.00	12.89	100.0	H	277.0
5604.166667	43.30	---	74.00	30.70	100.0	H	277.0

# Test Report

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010 10
Model:	Amazon
Test Mode:	BT Link+NB Link+Normal Operation+LED on
Test Voltage:	Battery
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	10m Chamber



## Critical Freqs

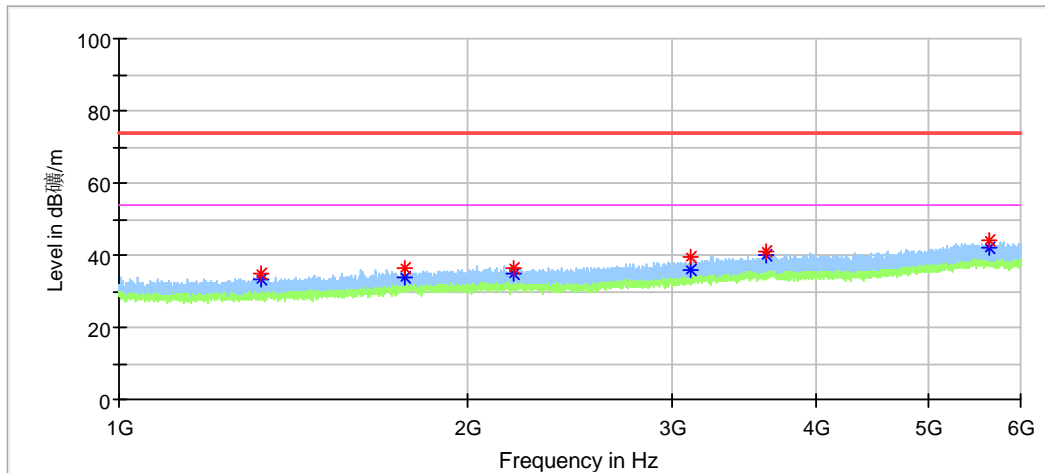
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
1140.416667	---	32.06	54.00	21.94	100.0	V	308.0
1140.416667	34.33	---	74.00	39.67	100.0	V	308.0
1750.833333	---	33.63	54.00	20.37	200.0	V	228.0
1750.833333	34.62	---	74.00	39.38	200.0	V	228.0
2096.041667	37.24	---	74.00	36.76	100.0	V	66.0
2096.041667	---	36.70	54.00	17.30	100.0	V	66.0
3180.416667	---	36.98	54.00	17.02	100.0	V	338.0
3180.416667	39.73	---	74.00	34.27	100.0	V	338.0
4752.291667	---	39.94	54.00	14.06	200.0	V	12.0
4752.291667	41.85	---	74.00	32.15	200.0	V	12.0
5682.291667	---	42.82	54.00	11.18	100.0	V	2.0
5682.291667	43.95	---	74.00	30.05	100.0	V	2.0

BT+GPRS+Normal Operating+LED on (AC power)

# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+GPRS Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



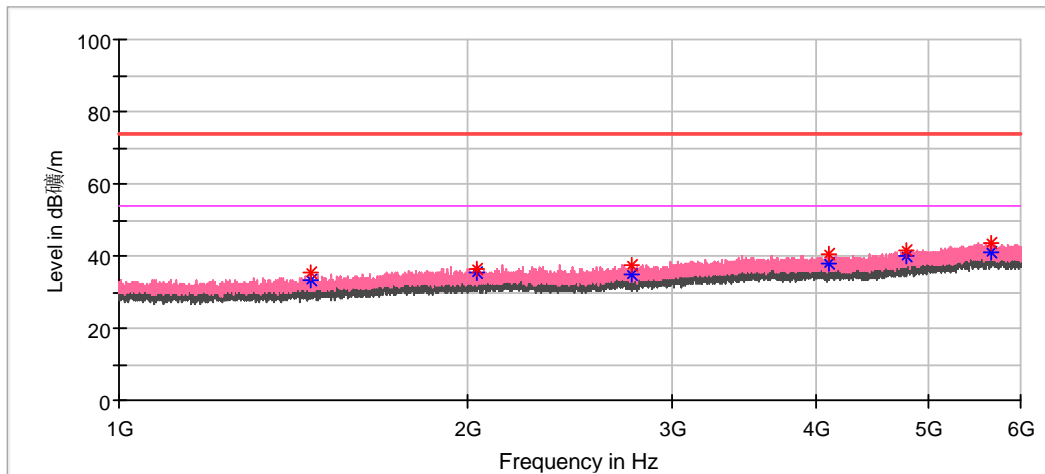
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)
1327.500000	---	33.48	54.00	20.52	200.0	H	339.0
1327.500000	35.12	---	74.00	38.88	200.0	H	339.0
1763.125000	---	34.09	54.00	19.91	100.0	H	0.0
1763.125000	36.66	---	74.00	37.34	100.0	H	0.0
2189.583333	---	35.06	54.00	18.94	200.0	H	38.0
2189.583333	36.18	---	74.00	37.82	200.0	H	38.0
3117.916667	---	36.05	54.00	17.95	100.0	H	137.0
3117.916667	39.54	---	74.00	34.46	100.0	H	137.0
3617.708333	---	39.83	54.00	14.17	200.0	H	330.0
3617.708333	41.06	---	74.00	32.94	200.0	H	330.0
5630.833333	---	42.27	54.00	11.73	100.0	H	156.0
5630.833333	44.12	---	74.00	29.88	100.0	H	156.0

# Test Report

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010 10
Model:	Amazon
Test Mode:	BT Link+GPRS Link+Normal Operation+LED on
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	10m Chamber



## Critical Freqs

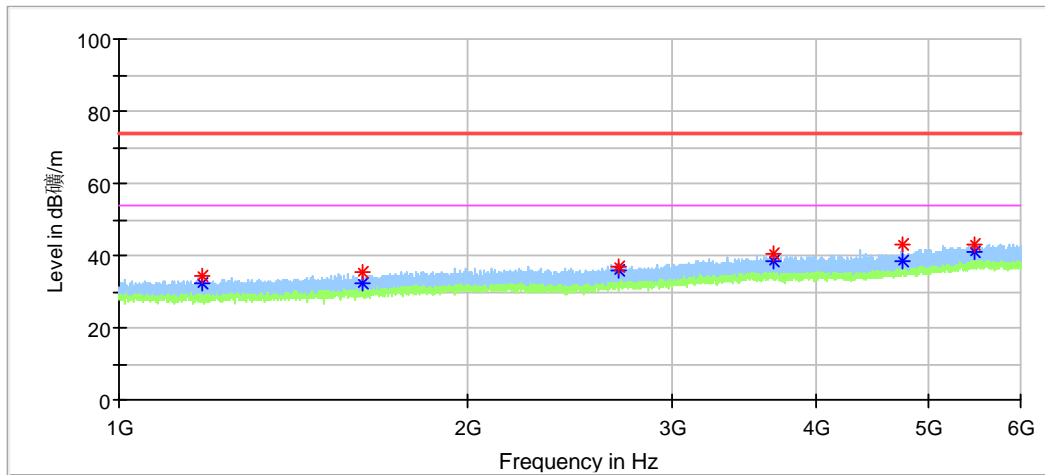
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
1462.916667	---	33.29	54.00	20.71	200.0	V	298.0
1462.916667	35.42	---	74.00	38.58	200.0	V	298.0
2037.916667	---	35.49	54.00	18.51	100.0	V	277.0
2037.916667	36.39	---	74.00	37.61	100.0	V	277.0
2764.583333	---	35.05	54.00	18.95	200.0	V	30.0
2764.791667	37.68	---	74.00	36.32	100.0	V	47.0
4103.125000	---	37.98	54.00	16.02	100.0	V	55.0
4104.166667	40.76	---	74.00	33.24	200.0	V	0.0
4784.375000	---	39.85	54.00	14.15	100.0	V	350.0
4784.375000	41.52	---	74.00	32.48	100.0	V	350.0
5661.041667	---	40.96	54.00	13.04	100.0	V	255.0
5661.041667	43.39	---	74.00	30.61	100.0	V	255.0

BT+GPRS+Normal Operating+LED on (Battery)

# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+GPRS Link+Normal Operation+LED on  
 Test Voltage: Battery  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



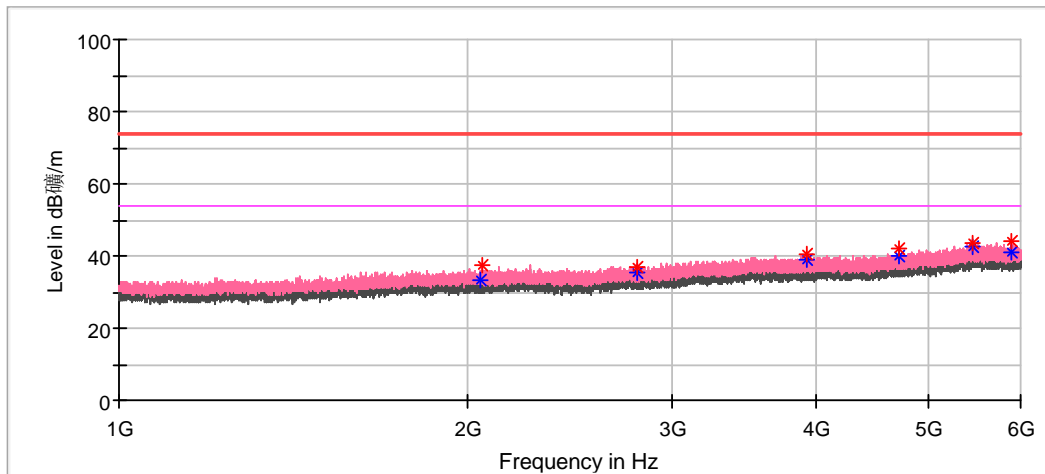
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)
1179.583333	---	32.08	54.00	21.92	200.0	H	0.0
1179.583333	34.30	---	74.00	39.70	200.0	H	0.0
1620.000000	35.35	---	74.00	38.65	200.0	H	122.0
1620.208333	---	32.12	54.00	21.88	200.0	H	310.0
2694.375000	---	35.88	54.00	18.12	200.0	H	358.0
2694.375000	37.06	---	74.00	36.94	200.0	H	358.0
3672.083333	---	38.29	54.00	15.71	200.0	H	8.0
3672.083333	40.65	---	74.00	33.35	200.0	H	8.0
4737.500000	42.96	---	74.00	31.04	200.0	H	318.0
4737.708333	---	38.66	54.00	15.34	200.0	H	318.0
5476.250000	---	41.09	54.00	12.91	100.0	H	272.0
5476.250000	42.93	---	74.00	31.07	100.0	H	272.0

# Test Report

## EUT Information

EUT Name:	Amazon Locker
Order Number:	168307010 10
Model:	Amazon
Test Mode:	BT Link+GPRS Link+Normal Operation+LED on
Test Voltage:	Battery
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	10m Chamber



## Critical Freqs

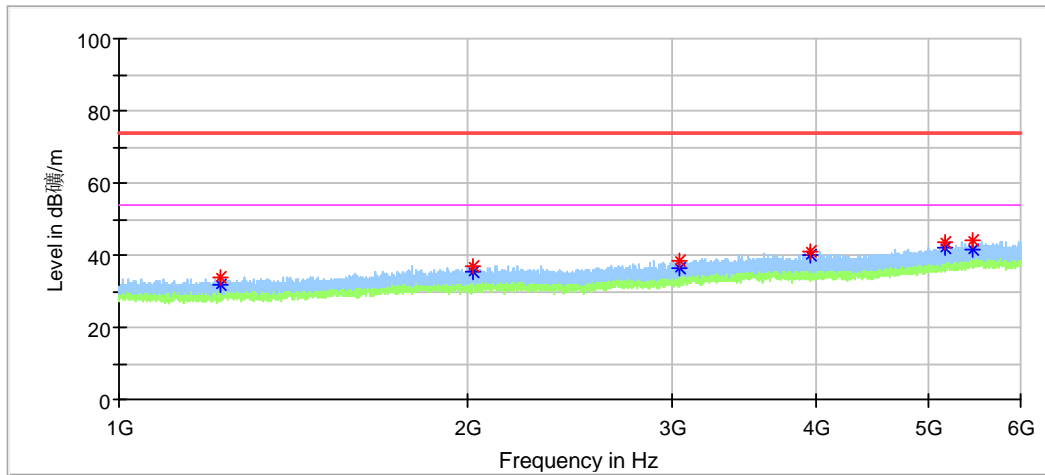
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
2054.166667	---	33.25	54.00	20.75	200.0	V	102.0
2054.583333	37.64	---	74.00	36.36	100.0	V	139.0
2798.750000	---	35.41	54.00	18.59	200.0	V	217.0
2798.750000	37.02	---	74.00	36.98	200.0	V	217.0
3917.083333	---	38.86	54.00	15.14	200.0	V	264.0
3917.083333	40.76	---	74.00	33.24	200.0	V	264.0
4703.541667	---	40.05	54.00	13.95	200.0	V	193.0
4703.541667	42.02	---	74.00	31.98	200.0	V	193.0
5453.333333	---	42.64	54.00	11.36	200.0	V	38.0
5453.333333	43.79	---	74.00	30.21	200.0	V	38.0
5895.833333	---	40.84	54.00	13.16	100.0	V	288.0
5895.833333	44.06	---	74.00	29.94	100.0	V	288.0

BT+EMTC+Normal Operating+LED on (AC power)

# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+EMTC Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



## Critical\_Freqs

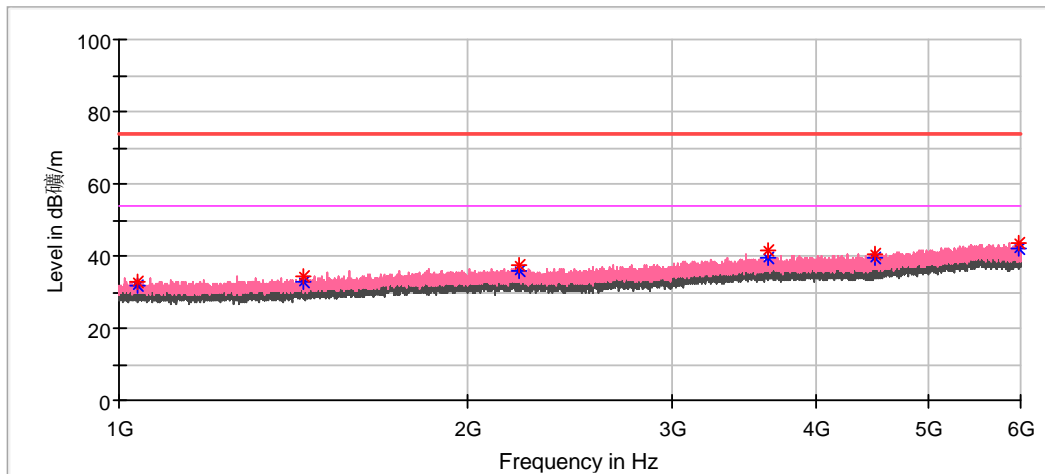
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)
1221.250000	---	31.64	54.00	22.36	200.0	H	281.0
1221.250000	33.60	---	74.00	40.40	200.0	H	281.0
2020.833333	---	35.54	54.00	18.46	100.0	H	79.0
2020.833333	36.67	---	74.00	37.33	100.0	H	79.0
3042.708333	---	36.47	54.00	17.53	100.0	H	55.0
3042.708333	38.70	---	74.00	35.30	100.0	H	55.0
3947.083333	---	40.12	54.00	13.88	100.0	H	358.0
3947.083333	41.07	---	74.00	32.93	100.0	H	358.0
5165.625000	---	42.12	54.00	11.88	100.0	H	246.0
5165.625000	43.38	---	74.00	30.62	100.0	H	246.0
5464.375000	---	41.52	54.00	12.48	200.0	H	321.0
5464.375000	43.97	---	74.00	30.03	200.0	H	321.0



# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+EMTC Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



## Critical Freqs

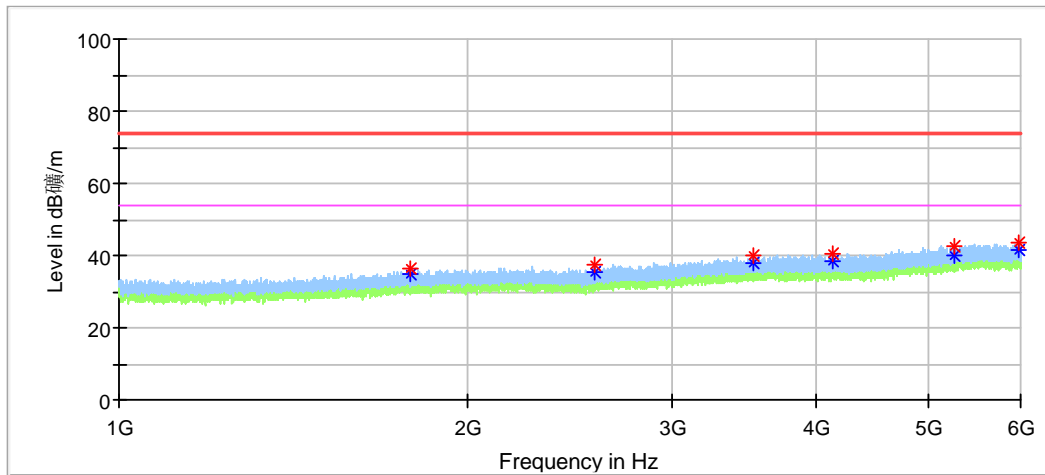
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
1038.750000	---	31.79	54.00	22.21	100.0	V	186.0
1038.750000	32.90	---	74.00	41.10	100.0	V	186.0
1442.708333	---	32.75	54.00	21.25	200.0	V	306.0
1442.708333	34.22	---	74.00	39.78	200.0	V	306.0
2213.958333	---	35.91	54.00	18.09	100.0	V	274.0
2213.958333	37.26	---	74.00	36.74	100.0	V	274.0
3630.833333	---	39.41	54.00	14.59	200.0	V	265.0
3630.833333	41.54	---	74.00	32.46	200.0	V	265.0
4487.083333	---	39.27	54.00	14.73	100.0	V	167.0
4487.083333	40.36	---	74.00	33.64	100.0	V	167.0
5985.833333	---	41.82	54.00	12.18	100.0	V	351.0
5985.833333	43.77	---	74.00	30.23	100.0	V	351.0

BT+EMTC+Normal Operating+LED on (Battery)

# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+EMTC Link+Normal Operation+LED on  
 Test Voltage: Battery  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



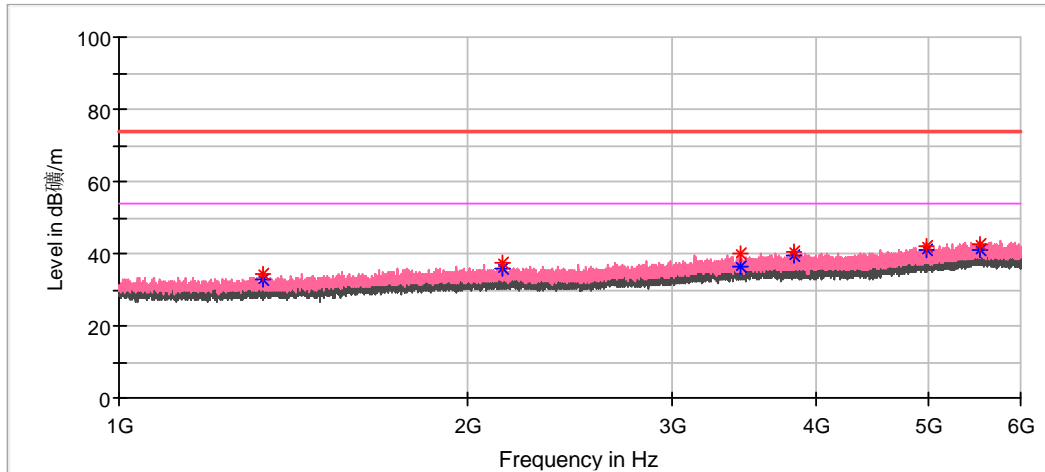
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n	Height (cm)	Pol	Azimuth (deg)
1782.708333	---	35.09	54.00	18.91	200.0	H	59.0
1782.708333	36.54	---	74.00	37.46	200.0	H	59.0
2576.666667	---	35.43	54.00	18.57	200.0	H	100.0
2576.666667	37.18	---	74.00	36.82	200.0	H	100.0
3528.333333	---	38.20	54.00	15.80	100.0	H	288.0
3528.333333	39.90	---	74.00	34.10	100.0	H	288.0
4128.750000	---	38.50	54.00	15.50	100.0	H	28.0
4128.750000	40.47	---	74.00	33.53	100.0	H	28.0
5263.125000	---	39.87	54.00	14.13	100.0	H	74.0
5263.125000	42.58	---	74.00	31.42	100.0	H	74.0
5987.291667	---	41.43	54.00	12.57	200.0	H	330.0
5987.291667	43.50	---	74.00	30.50	200.0	H	330.0

# Test Report

## EUT Information

EUT Name: Amazon Locker  
 Order Number: 168307010 10  
 Model: Amazon  
 Test Mode: BT Link+EMTC Link+Normal Operation+LED on  
 Test Voltage: Battery  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: 10m Chamber



## Critical\_Freqs

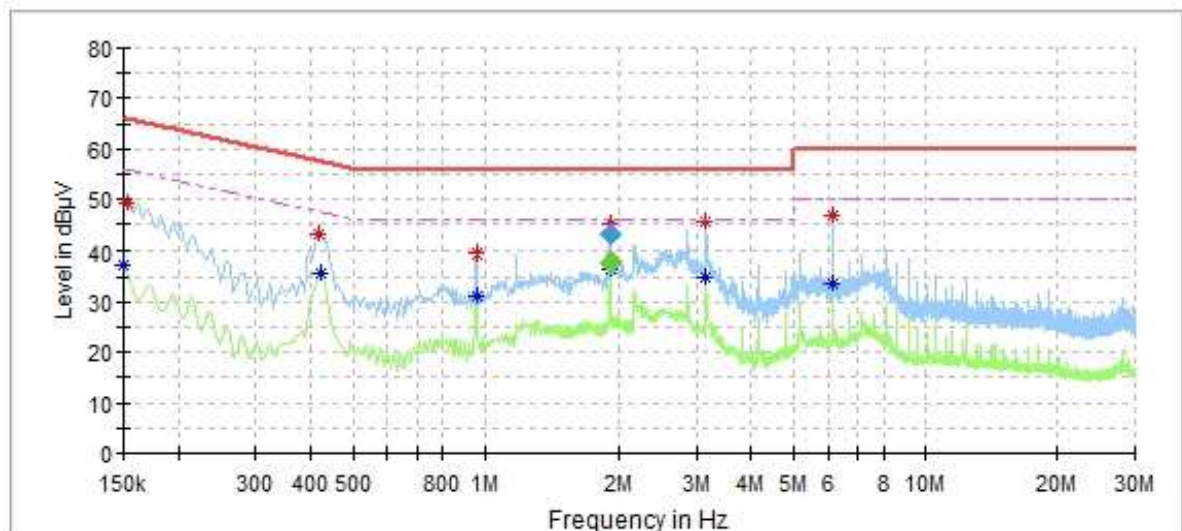
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Height (cm)	Pol	Azimuth (deg)
1328.750000	---	32.69	54.00	21.31	200.0	V	279.0
1328.750000	34.19	---	74.00	39.81	200.0	V	279.0
2144.375000	---	35.93	54.00	18.07	200.0	V	10.0
2144.375000	37.47	---	74.00	36.53	200.0	V	10.0
3433.541667	---	36.35	54.00	17.65	200.0	V	100.0
3433.541667	39.94	---	74.00	34.06	200.0	V	100.0
3821.250000	---	39.25	54.00	14.75	200.0	V	136.0
3821.250000	40.55	---	74.00	33.45	200.0	V	136.0
4981.041667	---	41.00	54.00	13.00	100.0	V	96.0
4981.041667	42.21	---	74.00	31.79	100.0	V	96.0
5535.625000	42.69	---	74.00	31.31	100.0	V	33.0
5536.041667	---	41.24	54.00	12.76	200.0	V	346.0

### Appendix B.3: Test Plots of Conducted Emissions on AC Mains

BT+NB+Normal Operating+LED on

#### EUT Information

EUT Name:	Amazon Locker
Order No.:	168307010
Model:	ZL-ODIN-V1
Test Mode:	BT Link+NB Link+Normal Operation+LED on
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	SR1



#### Critical\_Freqs

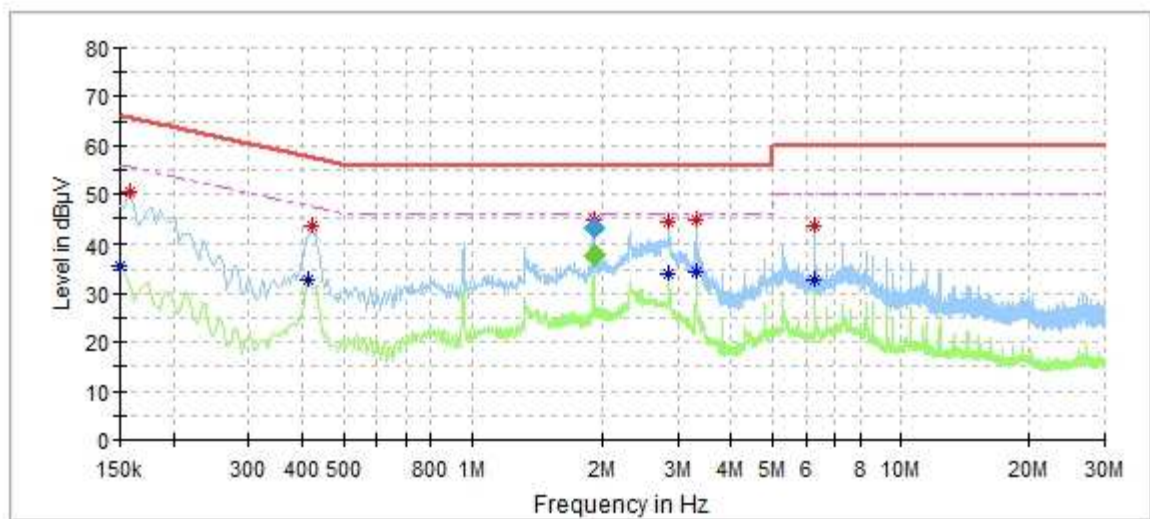
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	37.22	56.00	18.78	L1	10
0.154000	49.20	---	65.78	16.59	L1	10
0.418000	43.01	---	57.49	14.47	L1	10
0.422000	---	35.88	47.41	11.53	L1	10
0.956000	---	31.33	46.00	14.67	L1	10
0.956000	39.53	---	56.00	16.47	L1	10
1.910500	---	36.60	46.00	9.40	L1	10
1.910500	45.02	---	56.00	10.98	L1	10
3.156000	---	35.06	46.00	10.94	L1	10
3.156000	45.34	---	56.00	10.66	L1	10
6.120000	---	33.64	50.00	16.36	L1	10
6.120000	46.62	---	60.00	13.38	L1	10

#### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.910500	---	37.85	46.00	8.15	200.0	9.000	L1	10
1.910500	43.25	---	56.00	12.75	200.0	9.000	L1	10

## EUT Information

EUT Name: Amazon Locker  
 Order No.: 168307010  
 Model: ZL-ODIN-V1  
 Test Mode: BT Link+NB Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: SR1



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	35.73	56.00	20.27	N	10
0.158000	50.64	---	65.57	14.93	N	10
0.414000	---	32.75	47.57	14.81	N	10
0.422000	43.35	---	57.41	14.06	N	10
1.910500	---	37.14	46.00	8.86	N	10
1.910500	44.70	---	56.00	11.30	N	10
2.864000	---	34.14	46.00	11.86	N	10
2.864000	44.24	---	56.00	11.76	N	10
3.304000	44.58	---	56.00	11.42	N	10
3.308000	---	34.40	46.00	11.60	N	10
6.280000	43.34	---	60.00	16.66	N	10
6.284000	---	32.71	50.00	17.29	N	10

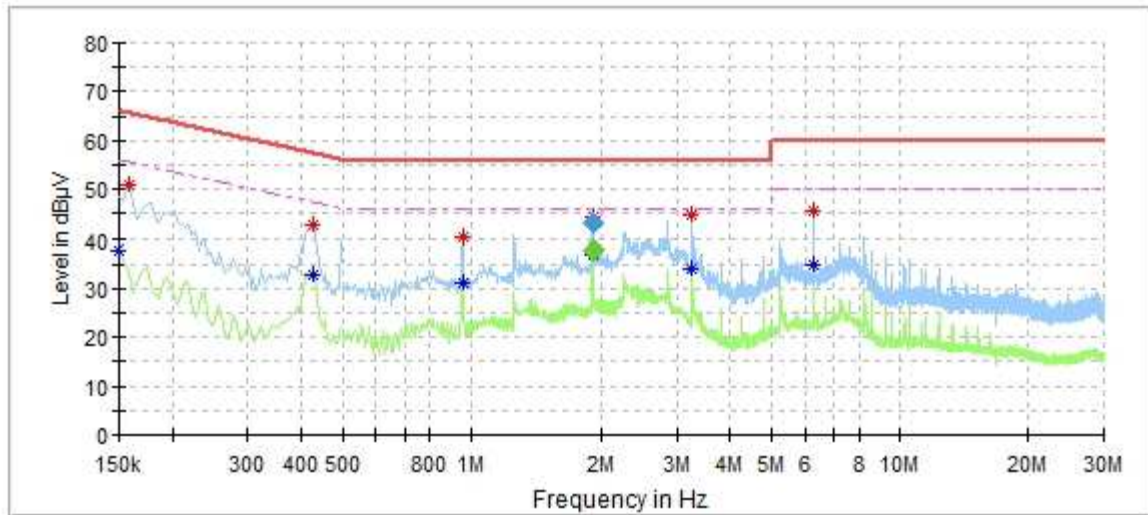
## Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.910500	---	37.63	46.00	8.37	200.0	9.000	N	10
1.910500	43.26	---	56.00	12.74	200.0	9.000	N	10

BT+GPRS+Normal Operating+LED on

### EUT Information

EUT Name: Amazon Locker  
 Order No.: 168307010  
 Model: ZL-ODIN-V1  
 Test Mode: BT Link+GPRS Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: SR1



### Critical\_Freqs

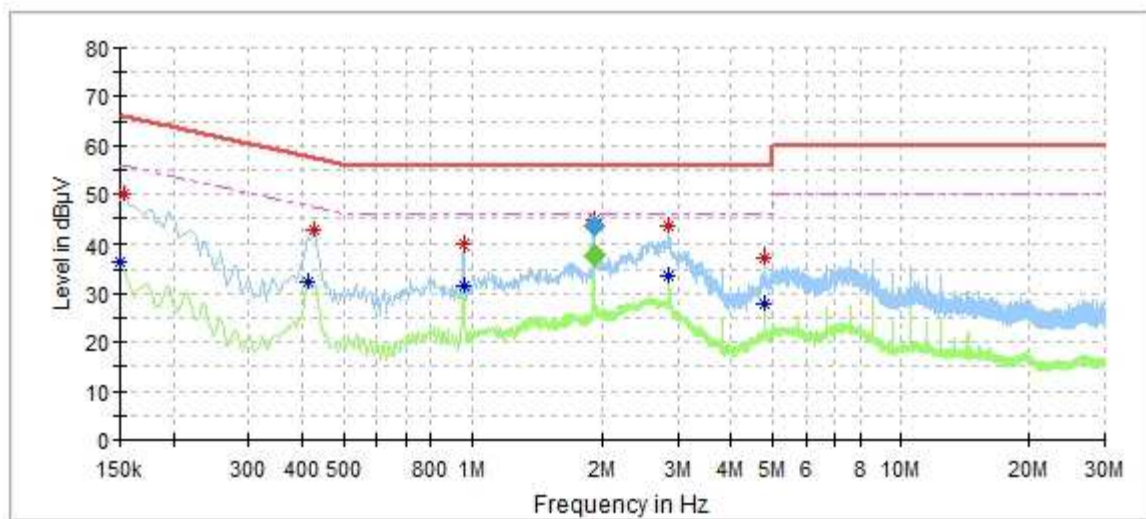
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	37.94	56.00	18.06	L1	10
0.158000	50.77	---	65.57	14.80	L1	10
0.426000	---	32.99	47.33	14.34	L1	10
0.426000	42.68	---	57.33	14.65	L1	10
0.956000	---	31.37	46.00	14.63	L1	10
0.956000	40.02	---	56.00	15.98	L1	10
1.910500	---	36.81	46.00	9.19	L1	10
1.910500	44.17	---	56.00	11.83	L1	10
3.252000	44.53	---	56.00	11.47	L1	10
3.256000	---	34.21	46.00	11.79	L1	10
6.252000	---	34.68	50.00	15.32	L1	10
6.252000	45.50	---	60.00	14.50	L1	10

### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.910500	---	37.60	46.00	8.40	200.0	9.000	L1	10
1.910500	43.27	---	56.00	12.73	200.0	9.000	L1	10

## EUT Information

EUT Name: Amazon Locker  
 Order No.: 168307010  
 Model: ZL-ODIN-V1  
 Test Mode: BT Link+GPRS Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: SR1



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	36.53	56.00	19.47	N	10
0.154000	50.01	---	65.78	15.77	N	10
0.414000	---	32.49	47.57	15.08	N	10
0.426000	42.47	---	57.33	14.86	N	10
0.956000	---	31.75	46.00	14.25	N	10
0.956000	39.90	---	56.00	16.10	N	10
1.910500	---	37.23	46.00	8.77	N	10
1.910500	44.83	---	56.00	11.17	N	10
2.864000	---	33.55	46.00	12.45	N	10
2.864000	43.68	---	56.00	12.32	N	10
4.776000	---	27.94	46.00	18.06	N	10
4.776000	37.38	---	56.00	18.62	N	10

## Final Result

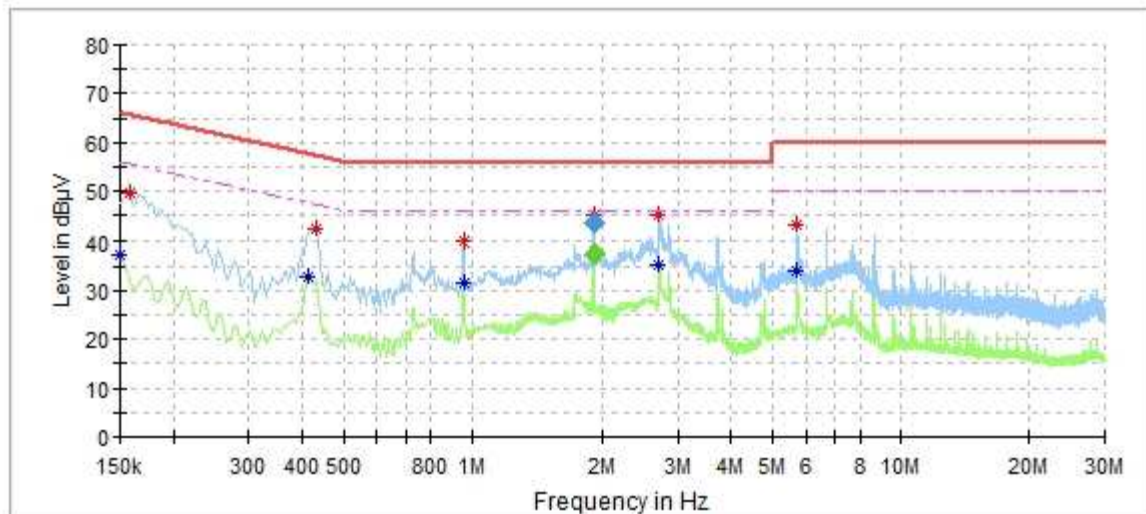
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.910500	---	37.66	46.00	8.34	200.0	9.000	N	10
1.910500	43.29	---	56.00	12.71	200.0	9.000	N	10



BT+EMTC+Normal Operating+LED on

### EUT Information

EUT Name: Amazon Locker  
 Order No.: 168307010  
 Model: ZL-ODIN-V1  
 Test Mode: BT Link+EMTC Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: SR1



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	37.16	56.00	18.84	L1	10
0.158000	49.46	---	65.57	16.11	L1	10
0.414000	---	32.84	47.57	14.73	L1	10
0.430000	42.22	---	57.25	15.04	L1	10
0.956000	---	31.73	46.00	14.27	L1	10
0.956000	39.79	---	56.00	16.21	L1	10
1.910500	---	37.13	46.00	8.87	L1	10
1.910500	45.08	---	56.00	10.92	L1	10
2.712000	44.96	---	56.00	11.04	L1	10
2.716000	---	35.09	46.00	10.91	L1	10
5.700000	---	34.03	50.00	15.97	L1	10
5.700000	42.94	---	60.00	17.06	L1	10

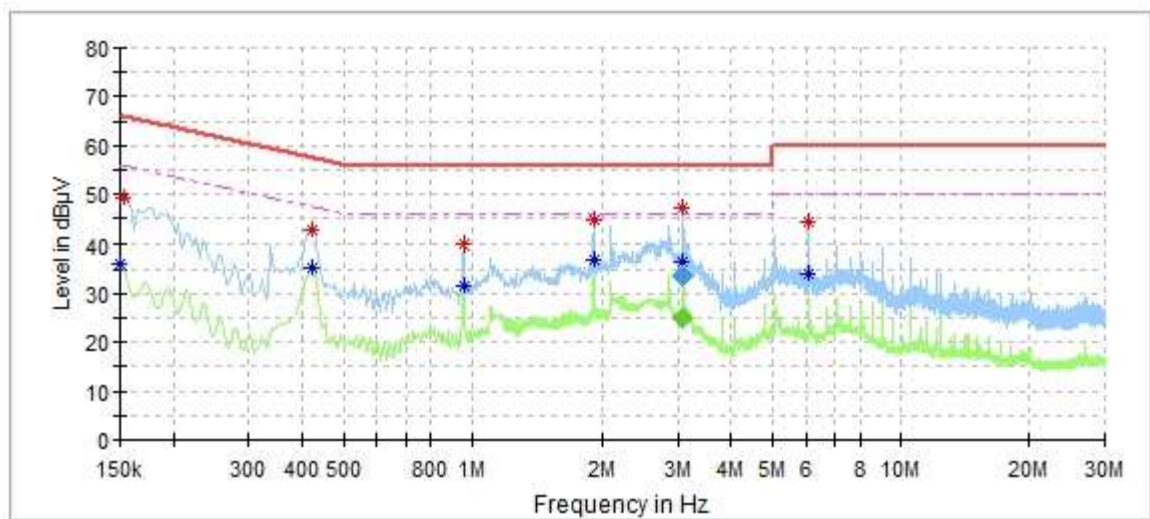
### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.910500	---	37.38	46.00	8.62	200.0	9.000	L1	10
1.910500	43.60	---	56.00	12.40	200.0	9.000	L1	10



## EUT Information

EUT Name: Amazon Locker  
 Order No.: 168307010  
 Model: ZL-ODIN-V1  
 Test Mode: BT Link+EMTC Link+Normal Operation+LED on  
 Test Voltage: AC 120V/60Hz  
 Test By: Shower Dai  
 Review By: Gary Chen  
 Remark: SR1



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	36.24	56.00	19.76	N	10
0.154000	49.41	---	65.78	16.38	N	10
0.422000	42.85	---	57.41	14.56	N	10
0.422000	---	35.44	47.41	11.97	N	10
0.956000	39.89	---	56.00	16.11	N	10
0.956000	---	31.57	46.00	14.43	N	10
1.912000	44.52	---	56.00	11.48	N	10
1.912000	---	36.85	46.00	9.15	N	10
3.066500	47.17	---	56.00	8.83	N	10
3.074500	---	36.61	46.00	9.39	N	10
6.076000	---	34.04	50.00	15.96	N	10
6.080000	44.42	---	60.00	15.58	N	10

## Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
3.066500	33.52	---	56.00	22.48	200.0	9.000	N	10
3.074500	---	24.85	46.00	21.15	200.0	9.000	N	10