

Appendix B: Test Results of FCC Part 15C

APPENDIX B: TEST RESULTS OF FCC PART 15C	1
APPENDIX B.1: TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL & HARMONICS	2
30MHz - 1GHz.....	2
1GHz - 18GHz.....	4
APPENDIX B.2: TEST RESULTS OF 20dB BANDWIDTH	8
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH.....	9
APPENDIX B.4: TEST RESULTS OF BAND EDGE	10

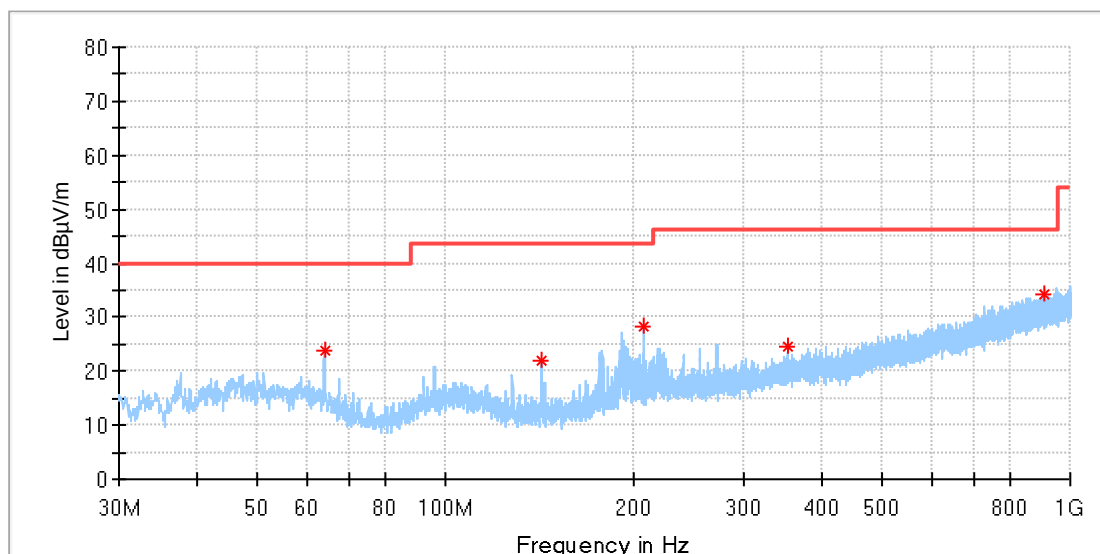
Appendix B.1: Test Results of Field strength of fundamental & harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Tankless Toilet
Model:	W5100
Test Mode:	2.4G
Order No/Sample No:	168373734
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

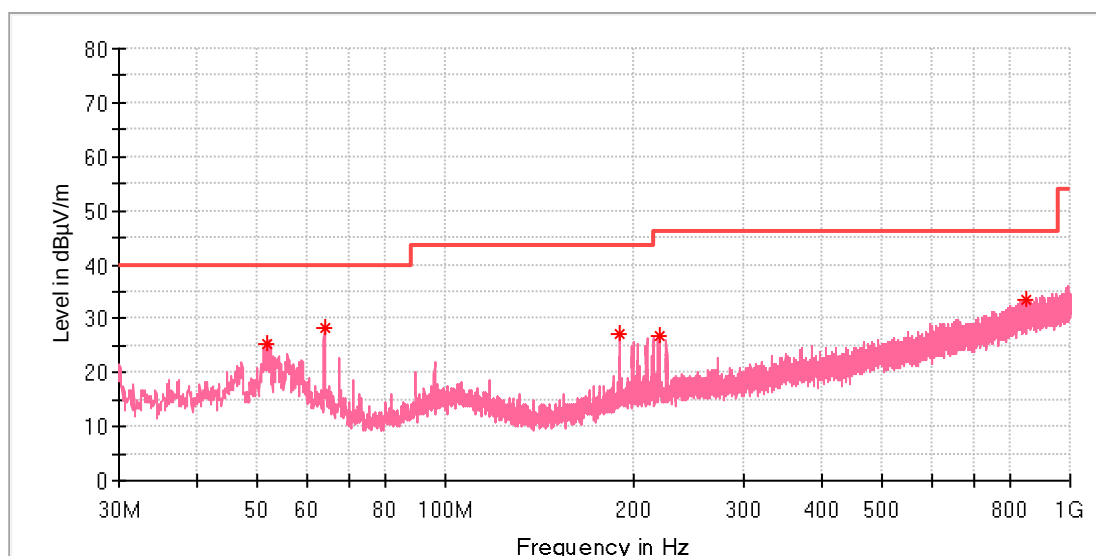
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
63.950000	24.00	40.00	16.00	100.0	H	169.0	-19.8
142.083500	21.77	43.50	21.73	100.0	H	25.0	-22.2
207.995000	28.23	43.50	15.27	100.0	H	216.0	-18.9
351.894500	24.45	46.00	21.55	100.0	H	52.0	-14.7
908.044000	34.40	46.00	11.60	100.0	H	216.0	-4.9

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.776500	25.46	40.00	14.54	100.0	V	33.0	-18.4
63.950000	28.12	40.00	11.88	100.0	V	55.0	-19.8
189.565000	27.34	43.50	16.16	100.0	V	180.0	-19.6
220.071500	26.72	46.00	19.28	100.0	V	3.0	-18.6
850.232000	33.66	46.00	12.34	100.0	V	103.0	-5.5

Final_Result

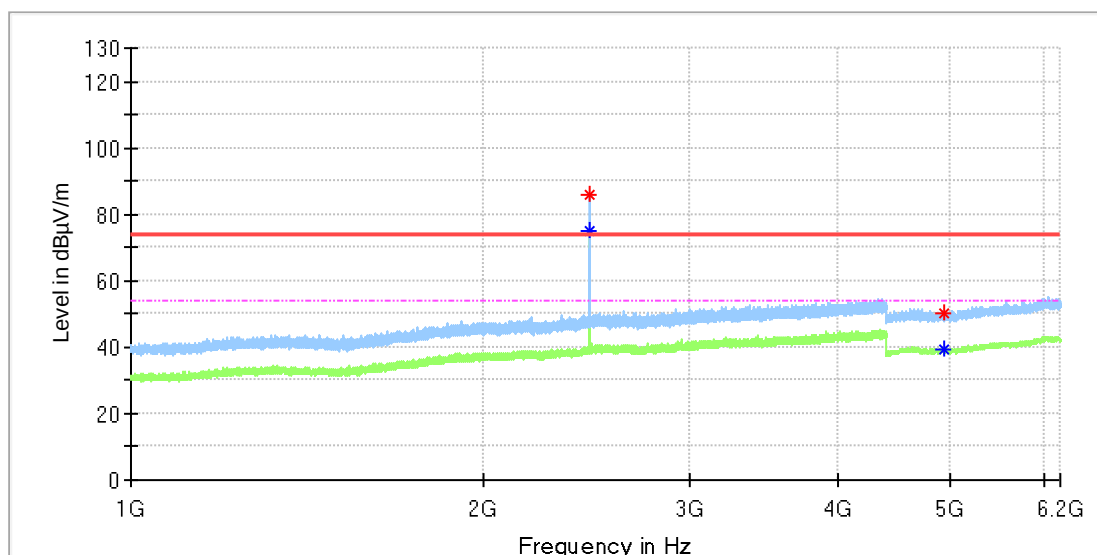
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz Fundamental.

EUT Information

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Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

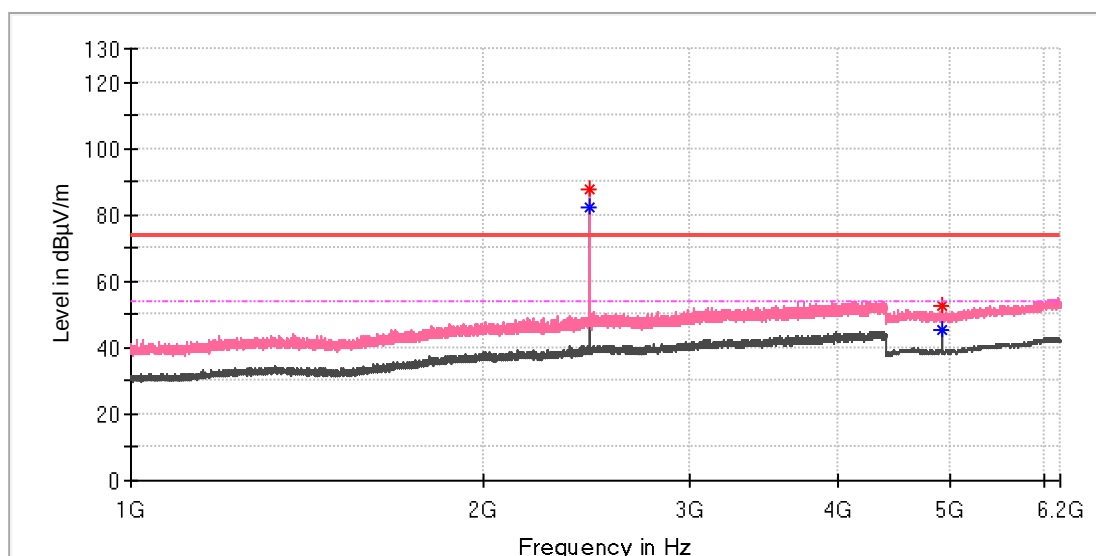
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2461.660000	---	75.16	94.00	18.84	100.0	H	119.0	7.5
2461.660000	85.58	---	114.00	28.42	100.0	H	119.0	7.5
4941.500000	50.44	---	74.00	23.56	100.0	H	36.0	11.8
4944.500000	---	39.29	54.00	14.71	100.0	H	223.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

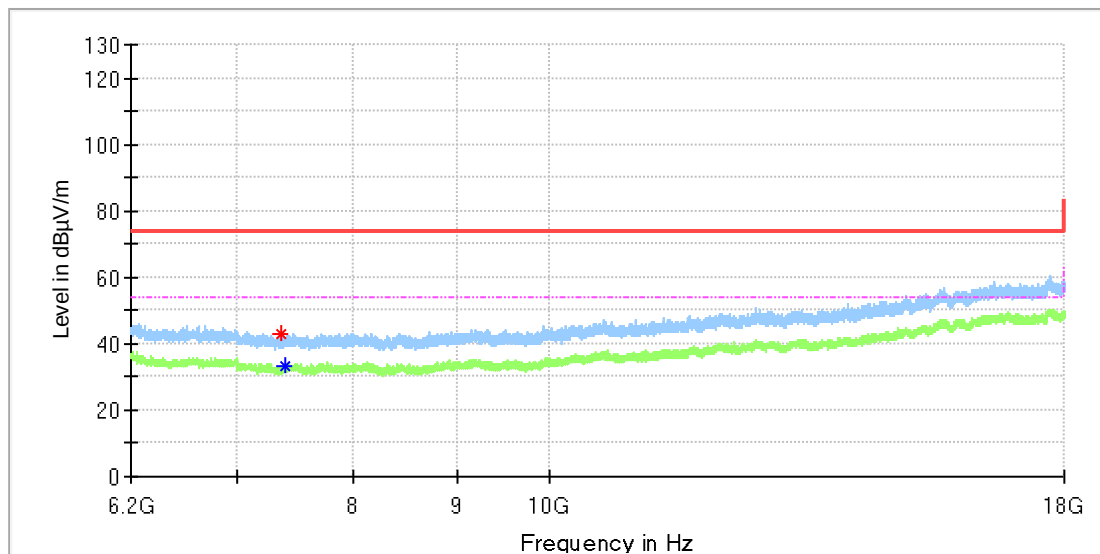
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2460.470000	87.81	---	114.00	26.19	100.0	V	234.0	7.5
2460.470000	---	82.09	94.00	11.91	100.0	V	234.0	7.5
4920.000000	---	45.16	54.00	8.84	100.0	V	356.0	11.8
4920.500000	52.86	---	74.00	21.14	100.0	V	356.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

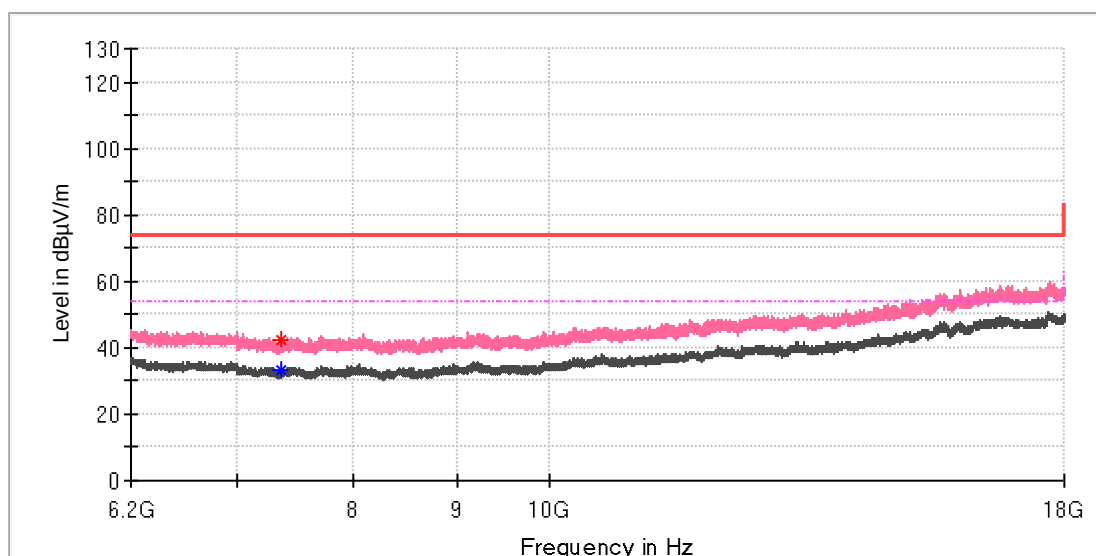
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7365.250000	42.86	---	74.00	31.14	100.0	H	353.0	8.2
7388.358333	---	33.23	54.00	20.77	100.0	H	329.0	8.2

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

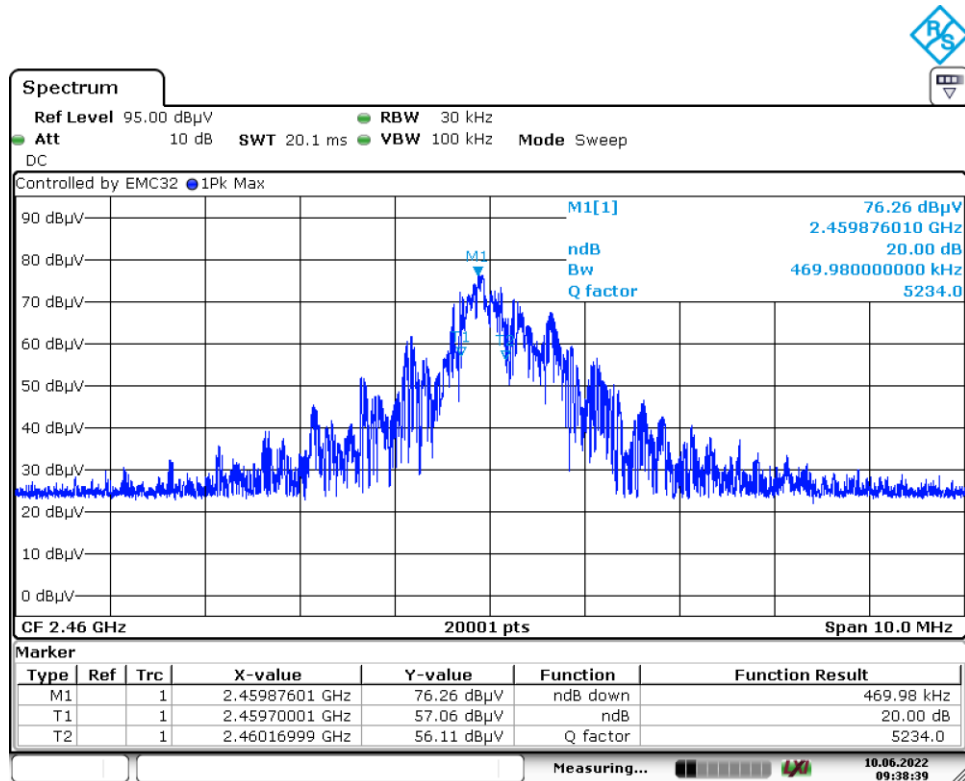
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7362.791667	---	33.52	54.00	20.48	100.0	V	112.0	8.2
7366.233333	42.02	---	74.00	31.98	100.0	V	88.0	8.2

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B.2: Test Results of 20dB Bandwidth

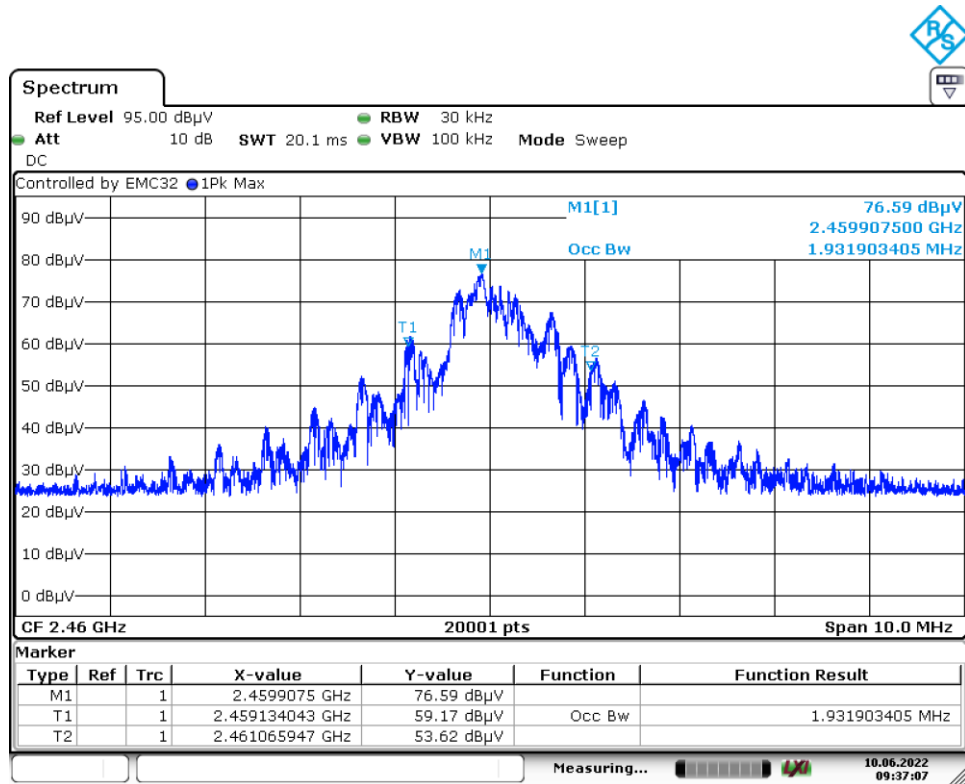
TestMode	Antenna	Channel	20db EBW[KHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2460	469.98	2459.70	2460.17	---	PASS



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Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2460	1.932	2459.13	2461.07	---	PASS

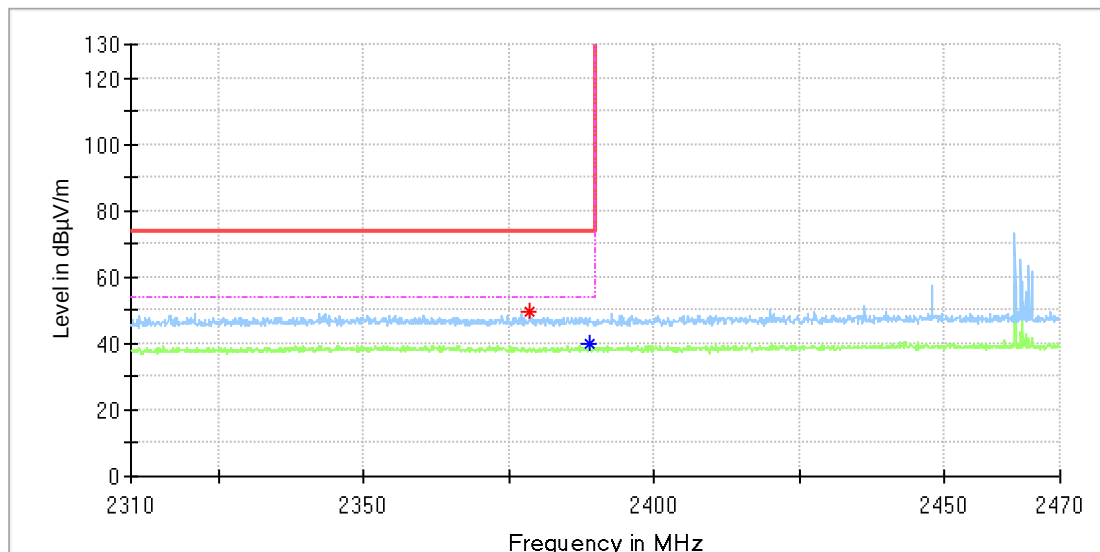


Date: 10.JUN.2022 09:37:06

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

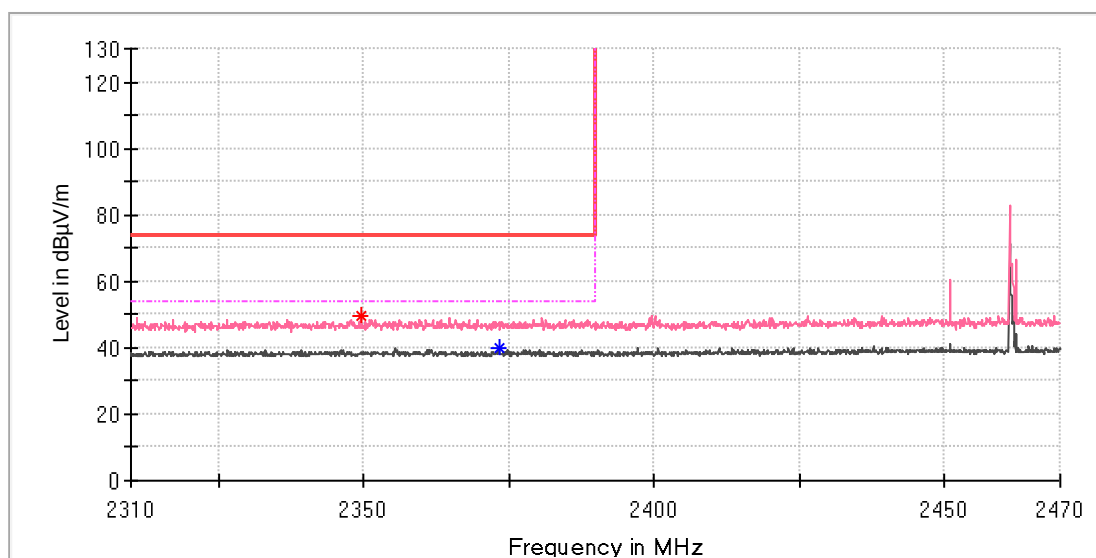
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2378.600000	49.58	---	74.00	24.42	100.0	H	91.0	6.9
2388.900000	---	39.95	54.00	14.05	100.0	H	288.0	7.0

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

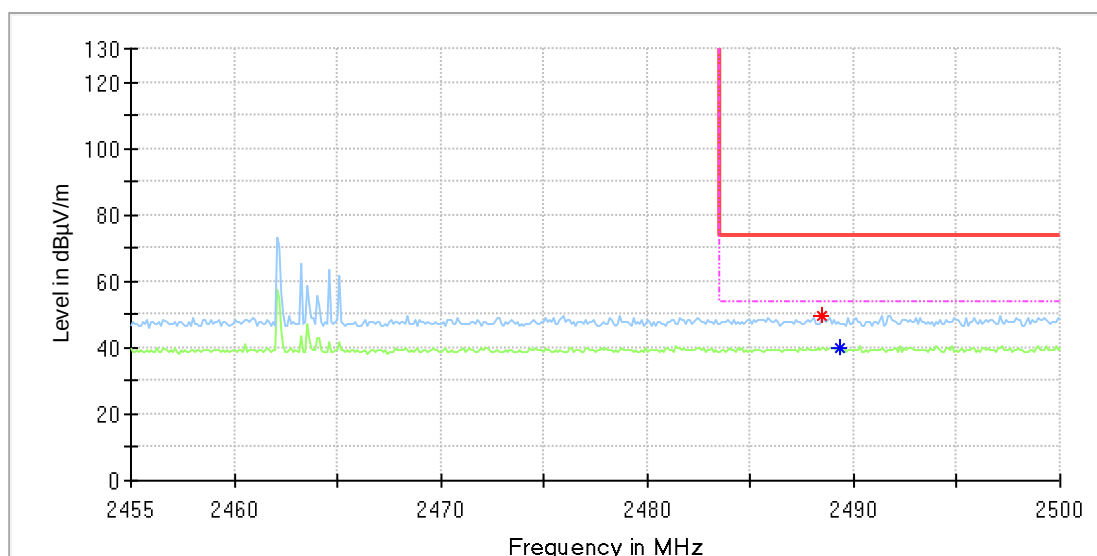
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2349.500000	49.81	---	74.00	24.19	100.0	V	352.0	6.9
2373.300000	---	40.18	54.00	13.82	100.0	V	0.0	6.9

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
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Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
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Critical_Freqs

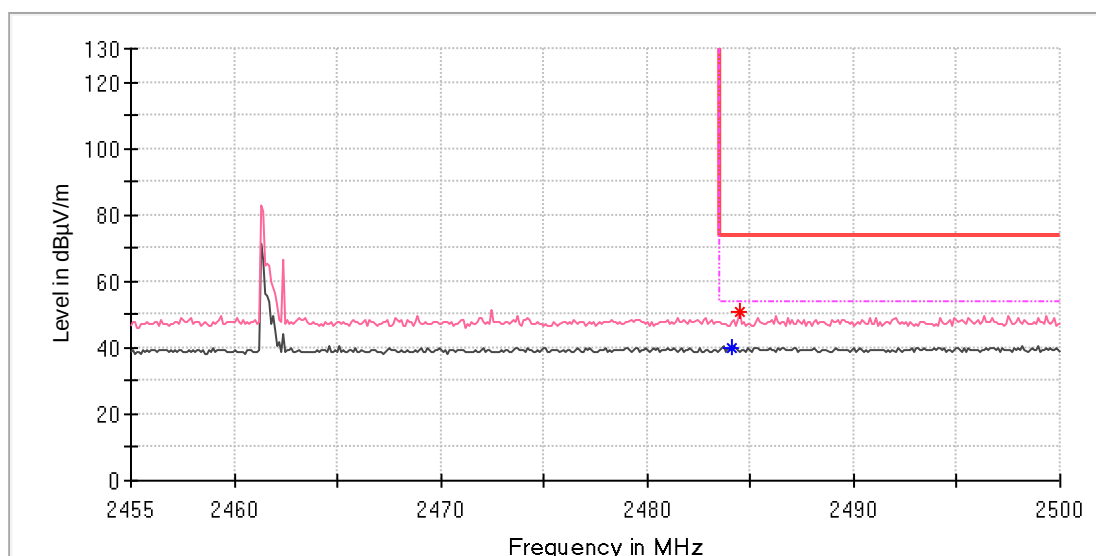
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2378.600000	49.58	---	74.00	24.42	100.0	H	91.0	6.9
2388.900000	---	39.95	54.00	14.05	100.0	H	288.0	7.0
2488.500000	49.30	---	74.00	24.70	100.0	H	342.0	7.4
2489.300000	---	39.97	54.00	14.03	100.0	H	317.0	7.4

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Tankless Toilet
Model: W5100
Test Mode: 2.4G
Order No/Sample No: 168373734
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.100000	---	40.00	54.00	14.00	100.0	V	344.0	7.4
2484.500000	50.58	---	74.00	23.42	100.0	V	358.0	7.4

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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