

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

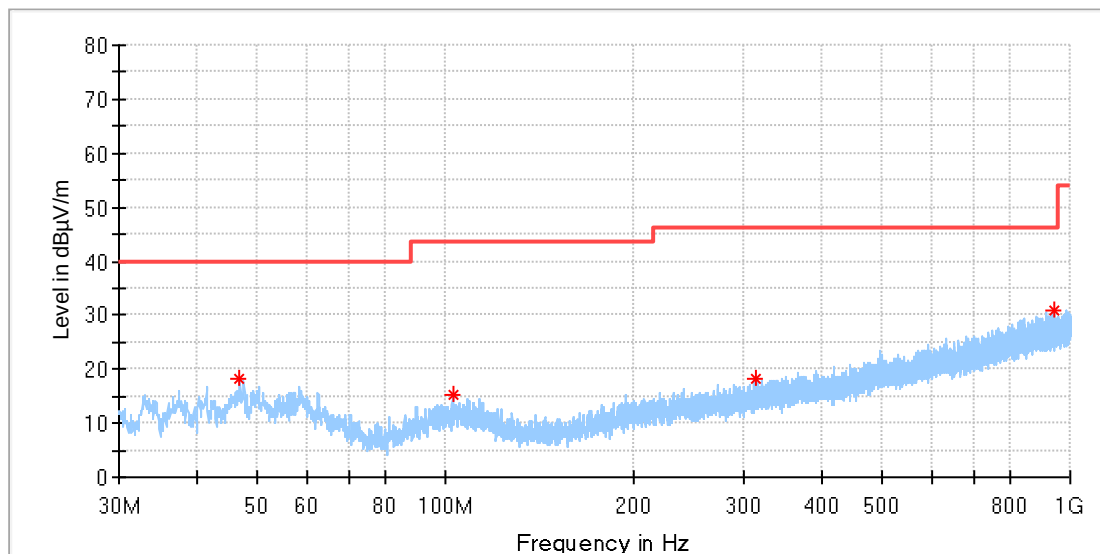
Appendix B.1: Test Results of Field strength of fundamental & harmonics

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:	Touchless Flush Mechanism
Model:	D7210
Test Mode:	2460MHz
Order No/Sample No:	168386724/A003319783-003
Test Voltage:	DC 6V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

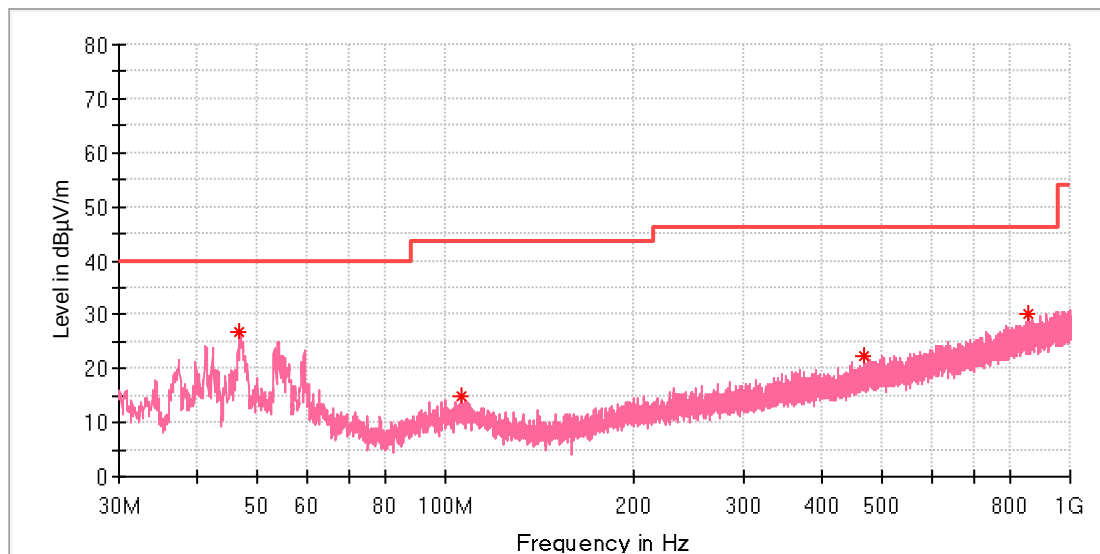
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.878000	18.18	40.00	21.82	100.0	H	308.0	-18.5
102.604500	15.16	43.50	28.34	100.0	H	346.0	-18.9
314.161500	18.39	46.00	27.61	100.0	H	198.0	-15.9
943.352000	30.73	46.00	15.27	100.0	H	293.0	-4.5

Final Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
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)
46.878000	26.70	40.00	13.30	100.0	V	308.0	-18.5
106.339000	14.75	43.50	28.75	100.0	V	83.0	-18.8
466.597000	22.29	46.00	23.71	100.0	V	227.0	-12.5
855.082000	30.09	46.00	15.91	100.0	V	33.0	-5.4

Final_Result

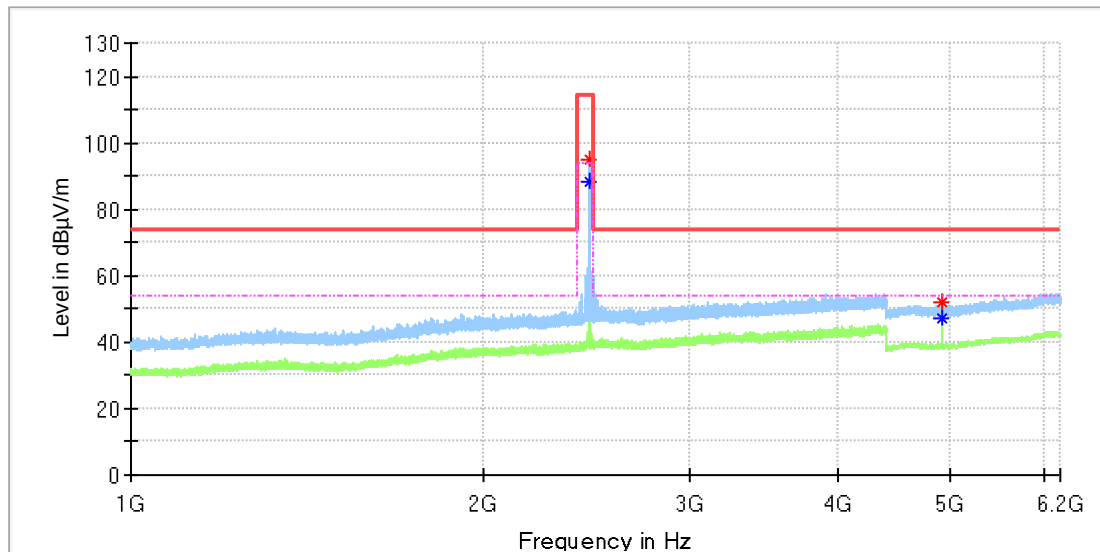
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Touchless Flush Mechanism
Model:	D7210
Test Mode:	2460MHz
Order No/Sample No:	168386724/A003319783-003
Test Voltage:	DC 6V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

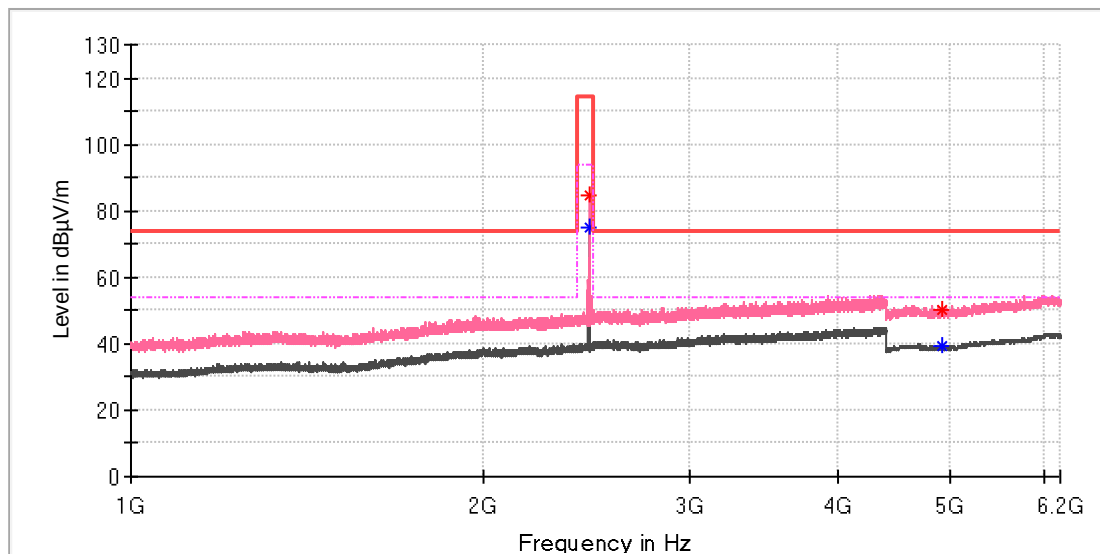
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2459.280000	---	88.21	94.00	5.79	100.0	H	165.0	7.5
2461.150000	95.11	---	114.00	18.89	100.0	H	299.0	7.5
4919.500000	52.26	---	74.00	21.74	100.0	H	236.0	11.8
4920.000000	---	47.07	54.00	6.93	100.0	H	236.0	11.8

Final Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

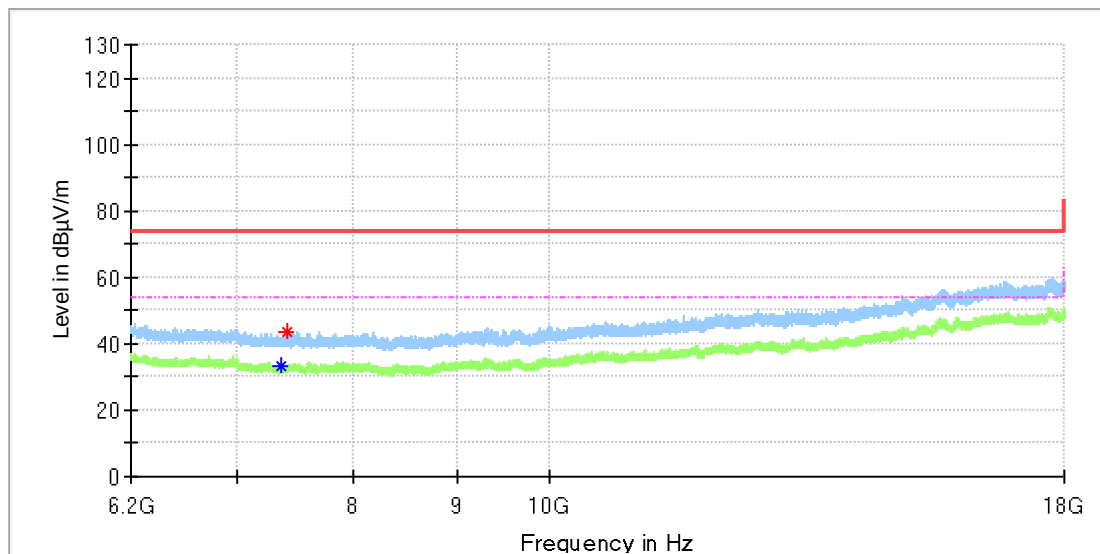
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2461.320000	84.79	---	114.00	29.21	100.0	V	180.0	7.5
2461.320000	---	74.77	94.00	19.23	100.0	V	180.0	7.5
4920.500000	---	39.32	54.00	14.68	100.0	V	108.0	11.8
4924.000000	50.16	---	74.00	23.84	100.0	V	115.0	11.8

Final_Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

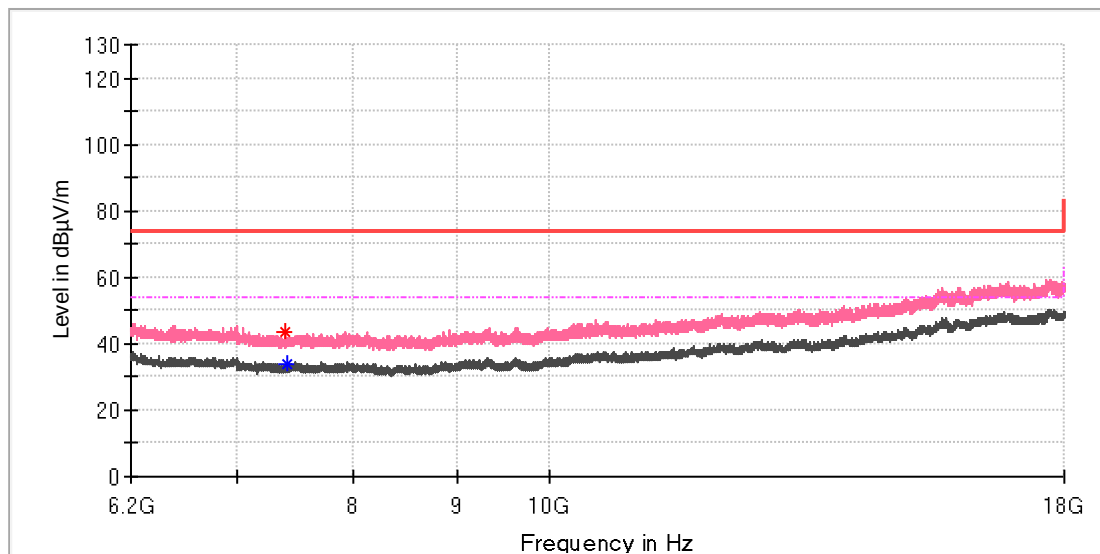
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7368.200000	---	33.09	54.00	20.91	100.0	H	350.0	8.2
7406.550000	43.75	---	74.00	30.25	100.0	H	325.0	8.3

Final Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



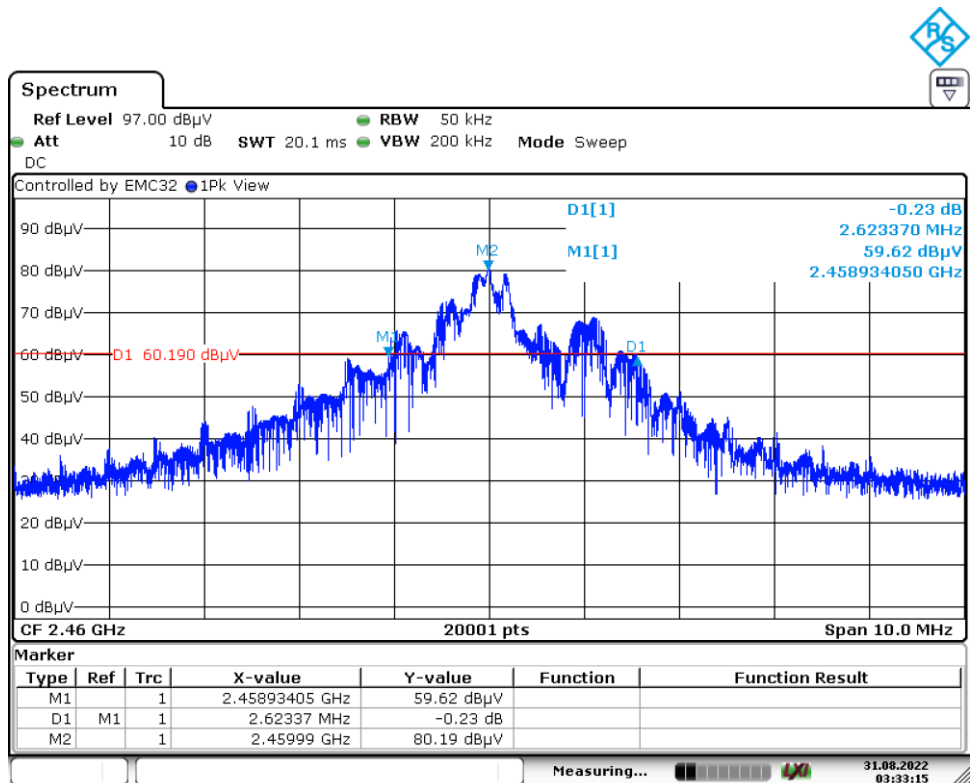
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7401.633333	43.52	---	74.00	30.48	100.0	V	151.0	8.3
7403.600000	---	33.57	54.00	20.43	100.0	V	245.0	8.3

Final Result

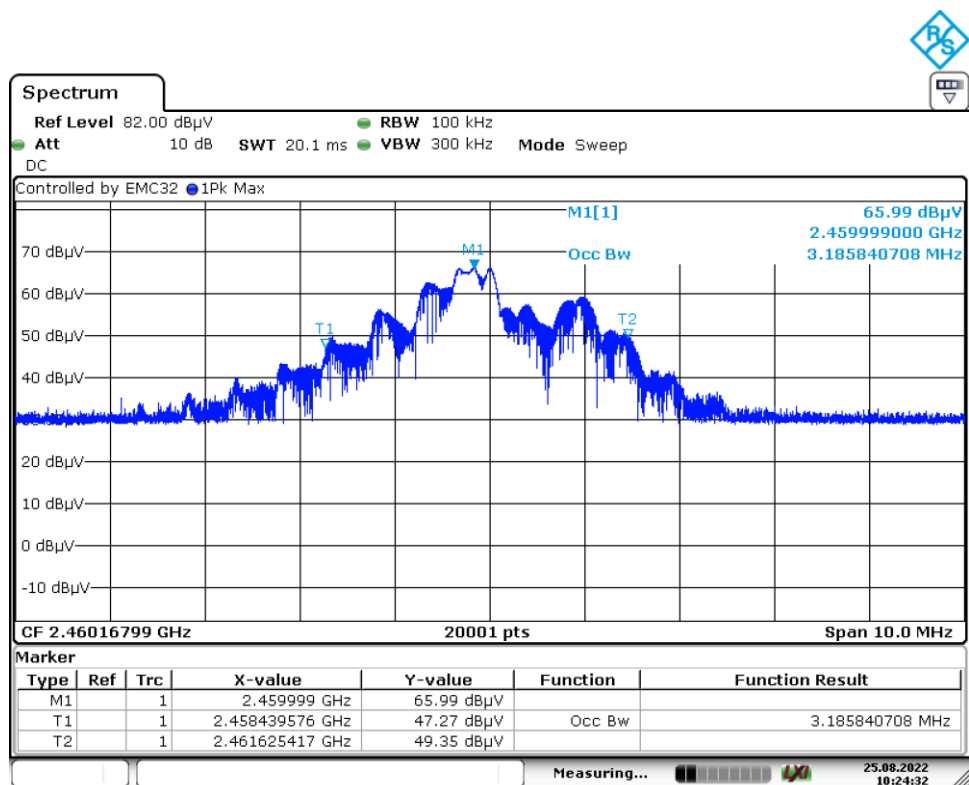
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Appendix B.2: Test Results of 20dB Bandwidth



Date: 31.AUG.2022 03:33:16

Appendix B.3: Test Results of 99% Bandwidth

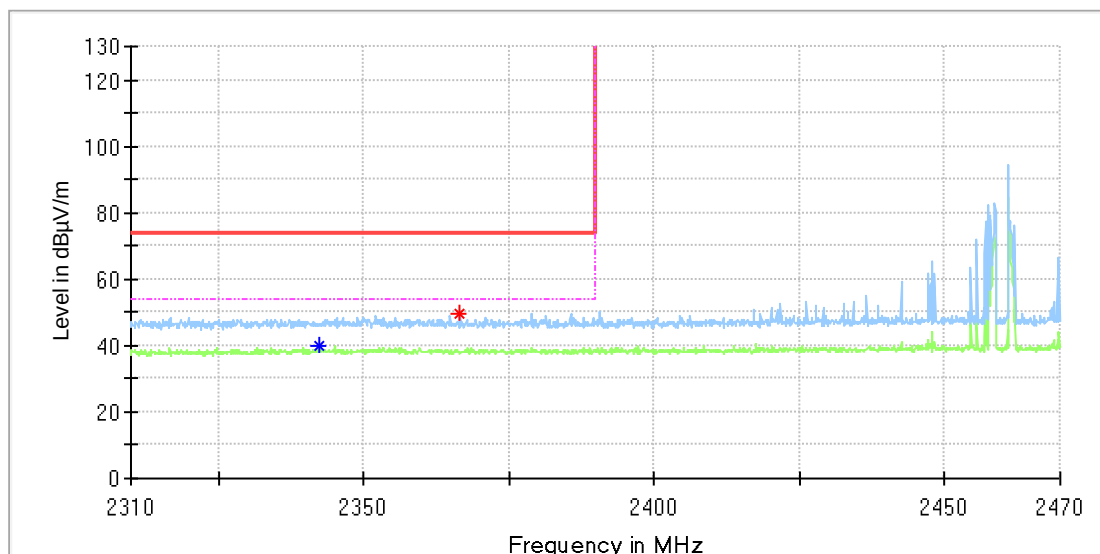


Date: 25.AUG.2022 10:24:33

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name:	Touchless Flush Mechanism
Model:	D7210
Test Mode:	2460MHz
Order No/Sample No:	168386724/A003319783-003
Test Voltage:	DC 6V
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

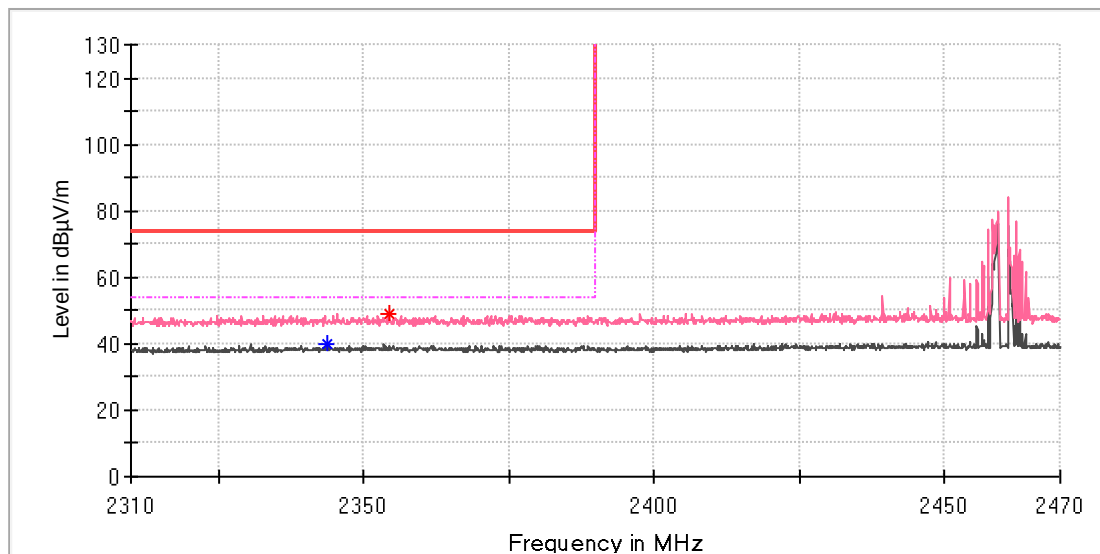
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.500000	---	39.62	54.00	14.38	100.0	H	290.0	6.8
2366.700000	49.34	---	74.00	24.66	100.0	H	87.0	6.9

Final Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

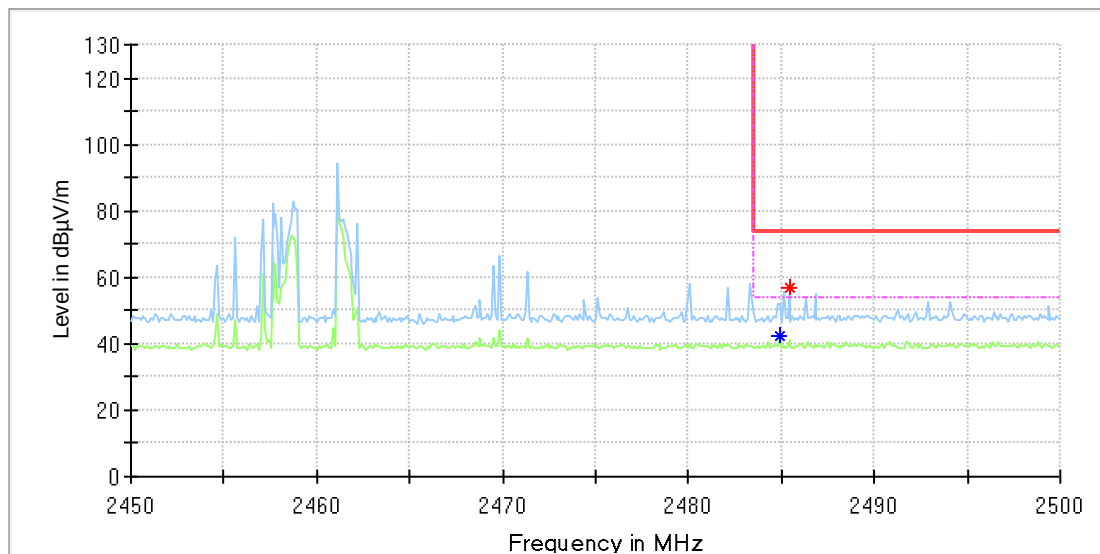
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2343.700000	---	40.13	54.00	13.87	100.0	V	329.0	6.9
2354.400000	49.03	---	74.00	24.97	100.0	V	298.0	6.9

Final_Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

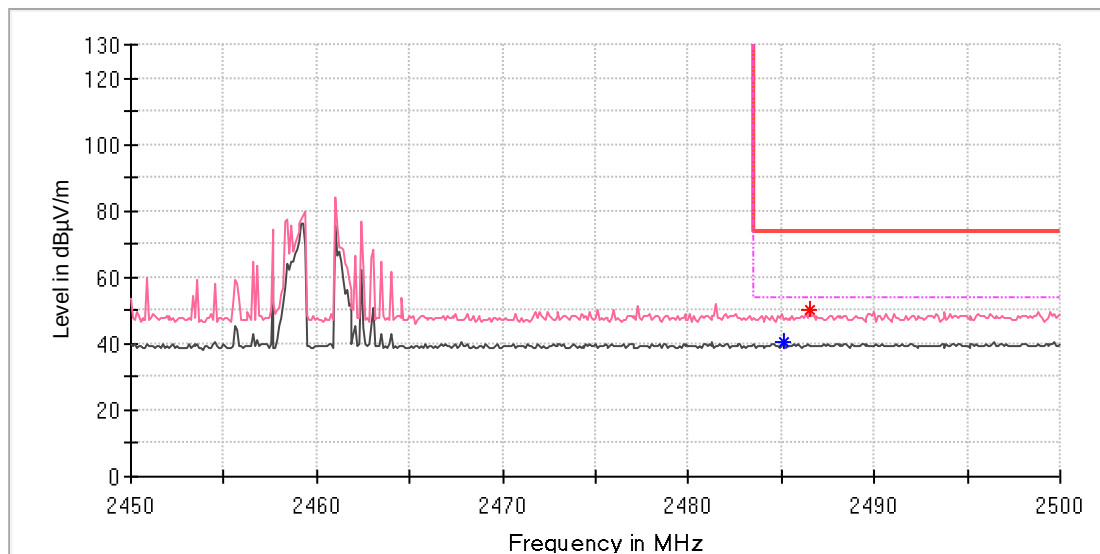
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.900000	---	42.08	54.00	11.92	100.0	H	139.0	7.4
2485.400000	56.57	---	74.00	17.43	100.0	H	210.0	7.4

Final Result

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

EUT Information

EUT Name: Touchless Flush Mechanism
Model: D7210
Test Mode: 2460MHz
Order No/Sample No: 168386724/A003319783-003
Test Voltage: DC 6V
Remark: Temp 23 Humi:53%
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)
2485.100000	---	40.68	54.00	13.32	100.0	V	183.0	7.4
2486.500000	49.96	---	74.00	24.04	100.0	V	161.0	7.4

Final_Result

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