

Appendix A: Test Results

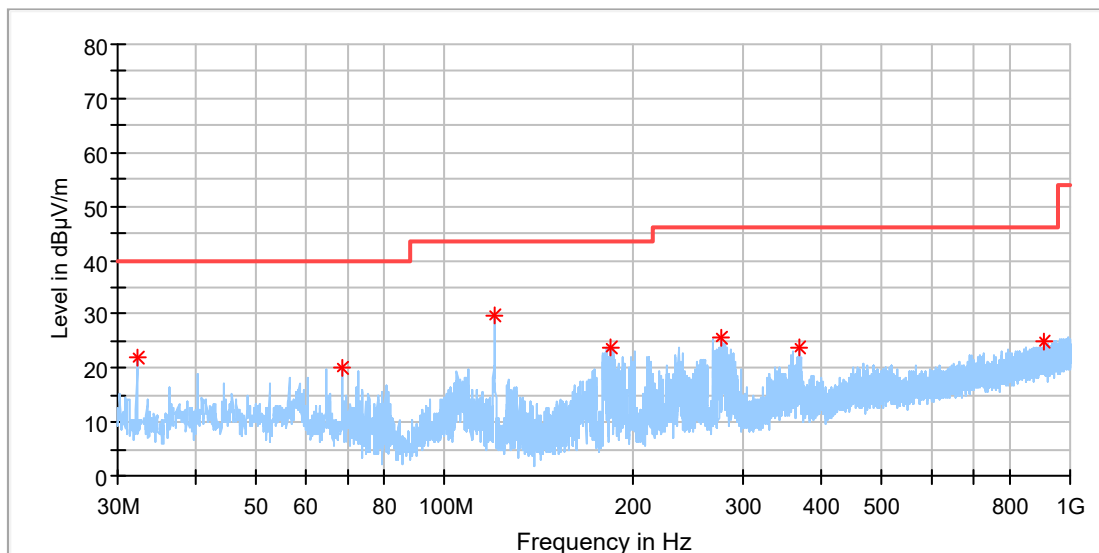
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Appendix A.1: Test Results of Field strength of fundamental & harmonics

30MHz - 1GHz

EUT Information

EUT Name:	3i Intelligent Cat Litter Box M10
Model:	HOME-M10
Test Mode:	10.525GHz
Order No/Sample No:	168472630/A003688785-001
Test Voltage:	Adaptor
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

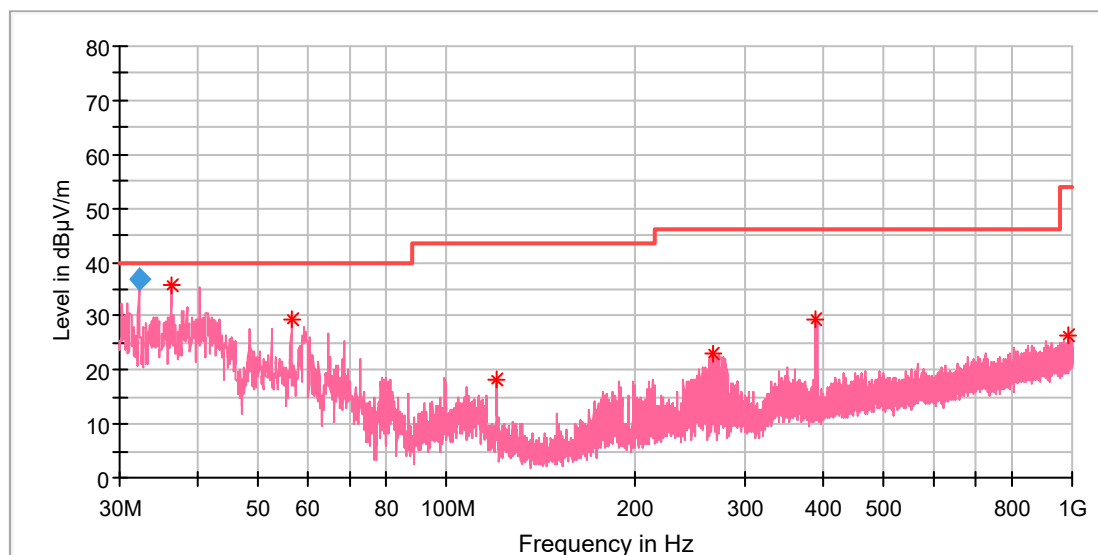
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.275769	22.04	40.00	17.96	100.0	H	301.0	-22.9
68.576154	20.07	40.00	19.93	100.0	H	3.0	-21.6
119.948846	29.74	43.50	13.76	100.0	H	0.0	-21.1
184.155385	23.90	43.50	19.60	100.0	H	275.0	-20.4
276.603846	25.49	46.00	20.51	100.0	H	0.0	-17.1
368.716539	23.70	46.00	22.30	100.0	H	231.0	-14.8
908.969231	24.74	46.00	21.26	100.0	H	249.0	-5.3

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: 3i Intelligent Cat Litter Box M10
Model: HOME-M10
Test Mode: 10.525GHz
Order No/Sample No: 168472630/A003688785-001
Test Voltage: Adaptor
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.245
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)
36.267692	35.75	40.00	4.25	100.0	V	292.0	-21.7
56.451154	29.54	40.00	10.46	100.0	V	0.0	-18.9
120.060769	18.42	43.50	25.08	100.0	V	194.0	-21.1
267.538077	23.23	46.00	22.77	100.0	V	1.0	-17.3
389.870000	29.30	46.00	16.70	100.0	V	128.0	-14.3
983.286154	26.34	54.00	27.66	100.0	V	71.0	-4.4

Final_Result

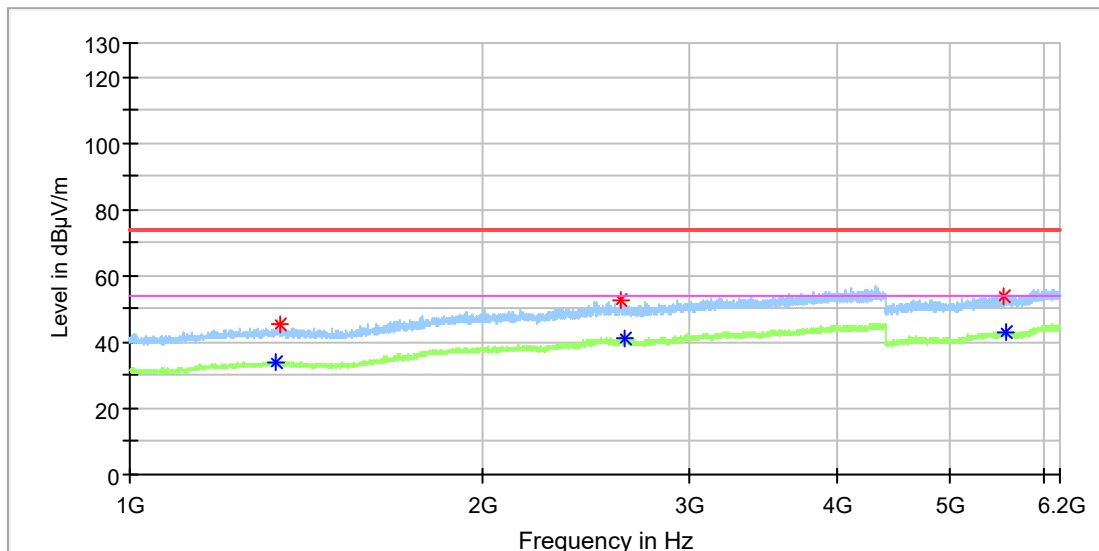
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.249538	36.93	40.00	3.07	105.0	V	240.0	-22.9

1GHz - 18GHz

Note: The highest waveform in the figure is 10GHz Radar Fundamental.

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Critical_Freqs

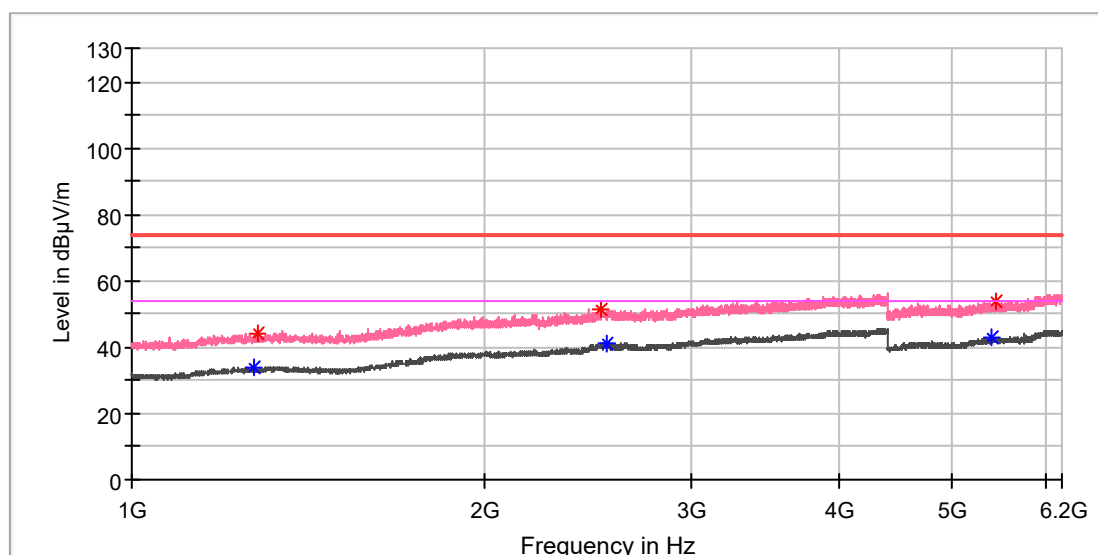
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1332.500000	---	34.11	54.00	19.89	150.0	H	60.0	2.7
1341.000000	45.35	---	74.00	28.65	150.0	H	12.0	2.7
2618.500000	52.61	---	74.00	21.39	150.0	H	72.0	8.5
2638.500000	---	41.32	54.00	12.68	150.0	H	238.0	8.6
5561.500000	54.07	---	74.00	19.93	150.0	H	358.0	15.1
5583.500000	---	43.05	54.00	10.95	150.0	H	275.0	15.2

Final_Result

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

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Critical_Freqs

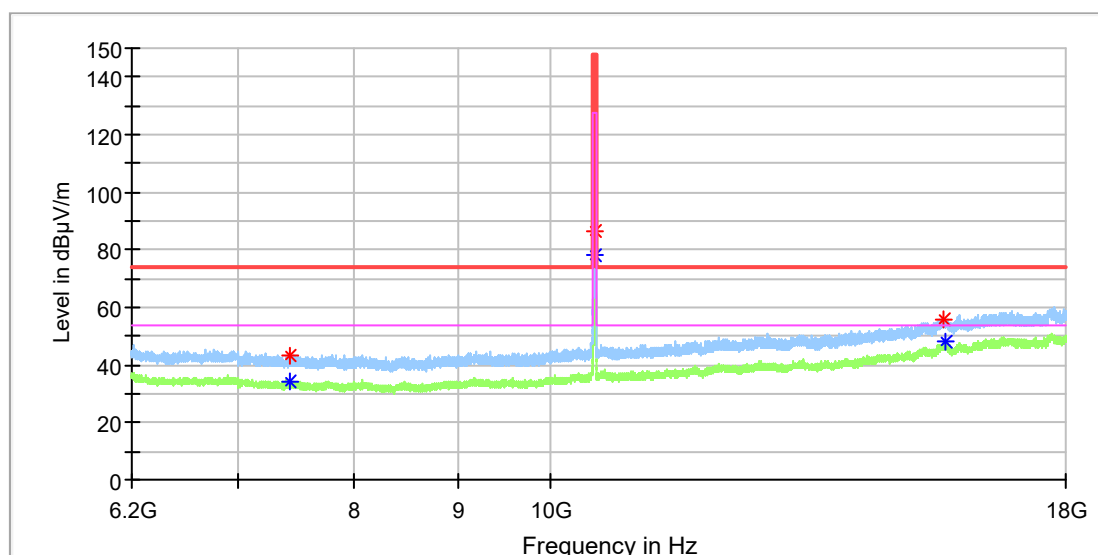
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1272.500000	---	33.76	54.00	20.24	150.0	V	2.0	2.5
1282.500000	43.91	---	74.00	30.09	150.0	V	2.0	2.6
2508.500000	51.39	---	74.00	22.61	150.0	V	6.0	8.4
2538.000000	---	41.10	54.00	12.90	150.0	V	48.0	8.6
5411.500000	---	42.97	54.00	11.03	150.0	V	359.0	15.0
5445.500000	53.81	---	74.00	20.19	150.0	V	95.0	15.0

Final_Result

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

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Critical_Freqs

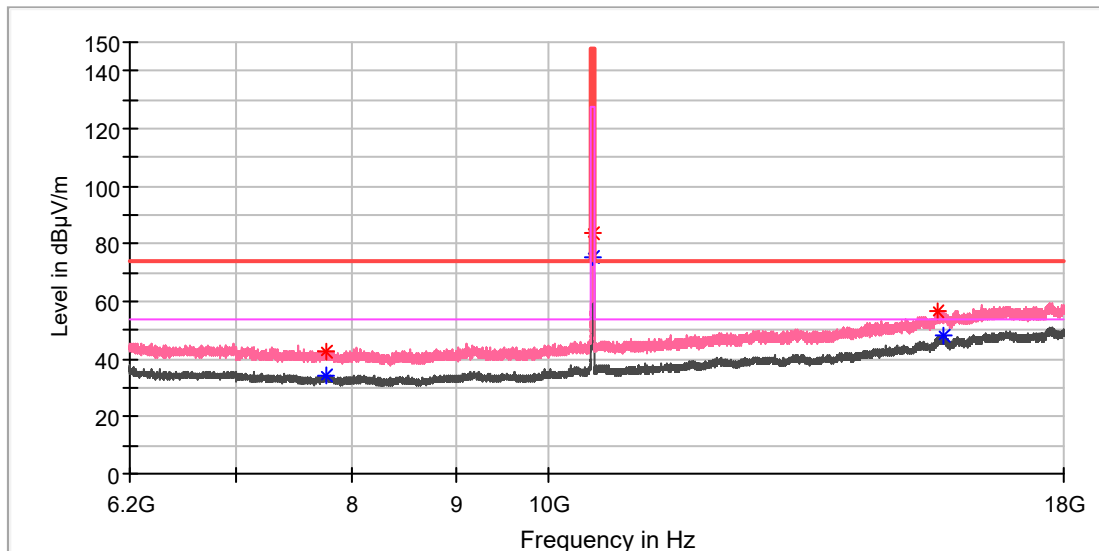
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7420.316667	43.22	---	74.00	30.78	150.0	H	42.0	8.4
7423.758333	---	34.50	54.00	19.50	150.0	H	237.0	8.4
10526.666667	86.79	---	148.00	61.21	150.0	H	341.0	12.0
10526.666667	---	78.02	128.00	49.98	150.0	H	341.0	12.0
15668.516667	55.72	---	74.00	18.28	150.0	H	115.0	19.0
15684.250000	---	48.07	54.00	5.93	150.0	H	42.0	19.0

Final_Result

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

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Test Mode: 10.525GHz
Order No/Sample No: 168472630/A003688785-001
Test Voltage: Adaptor
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.245
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)
7752.191667	42.58	---	74.00	31.42	150.0	V	273.0	8.8
7757.108333	---	34.36	54.00	19.64	150.0	V	311.0	8.8
10527.158333	83.96	---	148.00	64.04	150.0	V	358.0	12.0
10527.158333	---	75.38	128.00	52.62	150.0	V	358.0	12.0
15590.341667	56.78	---	74.00	17.22	150.0	V	262.0	18.6
15681.300000	---	48.00	54.00	6.00	150.0	V	225.0	19.0

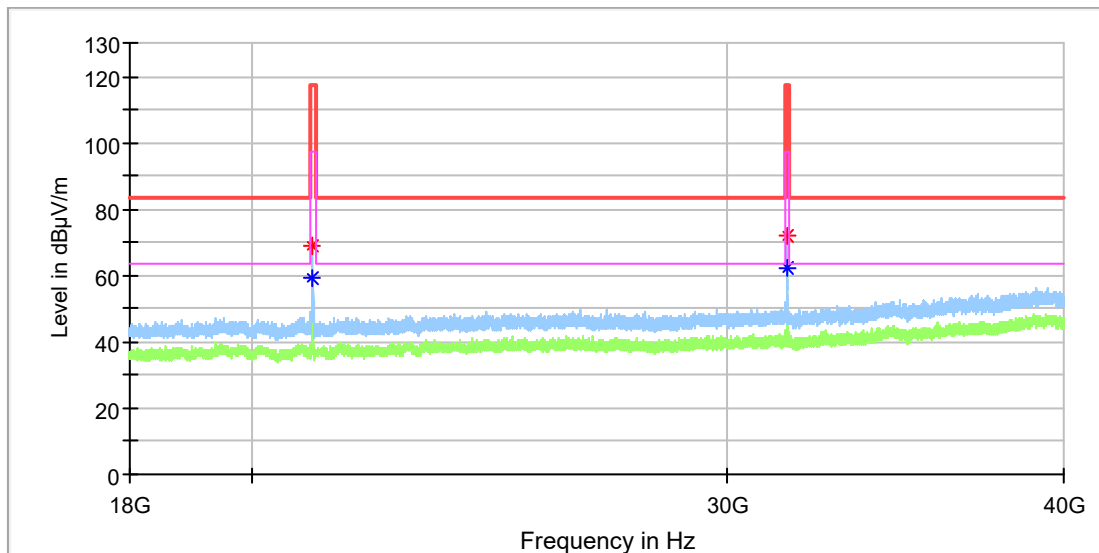
Final_Result

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

18GHz - 40GHz

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Model: HOME-M10
Test Mode: 10.525GHz
Order No/Sample No: 168472630/A003688785-001
Test Voltage: Adaptor
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.245
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)
21053.875000	---	59.38	97.50	38.12	150.0	H	101.0	-12.2
21054.562500	68.64	---	117.50	48.86	150.0	H	101.0	-12.2
31581.562500	---	62.36	97.50	35.14	150.0	H	101.0	-10.4
31581.562500	72.04	---	117.50	45.46	150.0	H	101.0	-10.4

Final_Result

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

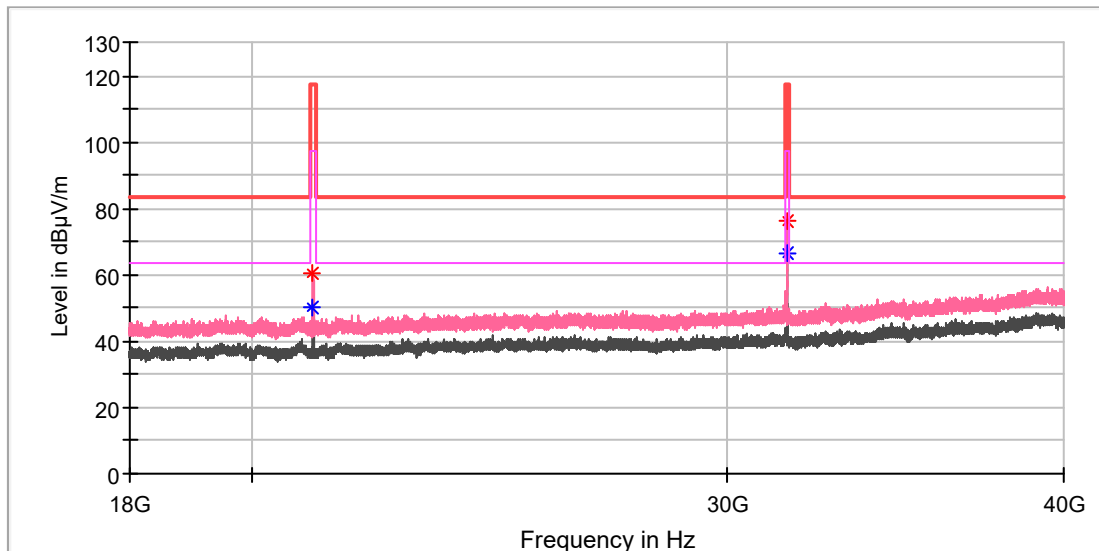
Note: Field Strength @ 1m = (Field Strength @ 3m) + 9.54 dB

Field Strength @ 1m Peak limit = 74 dBµV/m + 9.54 dB = 83.54 dBµV/m

Field Strength @ 1m Average limit = 54 dBµV/m + 9.54 dB = 63.54 dBµV/m

EUT Information

EUT Name: 3i Intelligent Cat Litter Box M10
Model: HOME-M10
Test Mode: 10.525GHz
Order No/Sample No: 168472630/A003688785-001
Test Voltage: Adaptor
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.245
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)
21055.250000	60.34	---	117.50	57.16	150.0	V	131.0	-12.2
21055.250000	---	50.20	97.50	47.30	150.0	V	131.0	-12.2
31582.937500	76.12	---	117.50	41.38	150.0	V	120.0	-10.4
31583.625000	---	66.63	97.50	30.87	150.0	V	120.0	-10.4

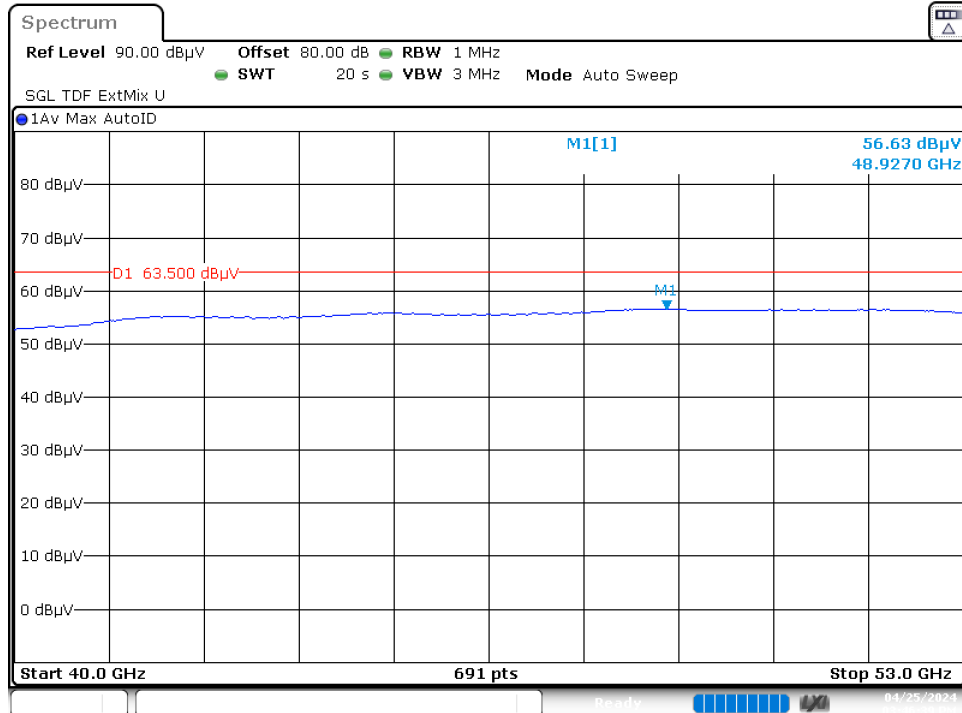
Final_Result

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

Note: Field Strength @ 1m = (Field Strength @ 3m) + 9.54 dB
Field Strength @ 1m Peak limit = 74 dBµV/m + 9.54 dB = 83.54 dBµV/m
Field Strength @ 1m Average limit = 54 dBµV/m + 9.54 dB = 63.54 dBµV/m

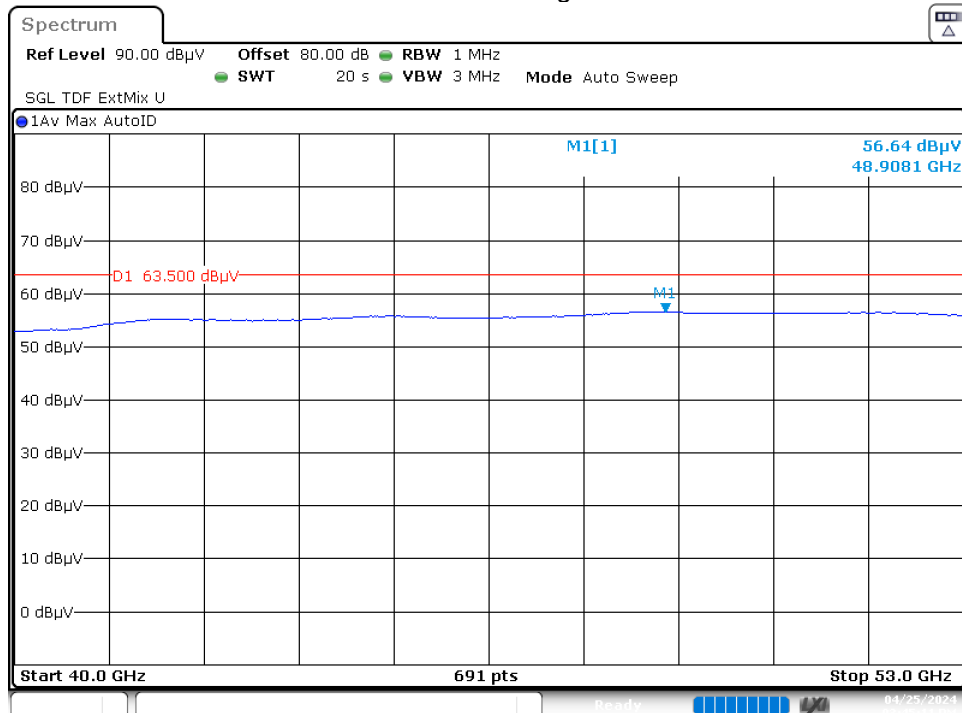
40GHz - 53GHz

Horizontal-Average



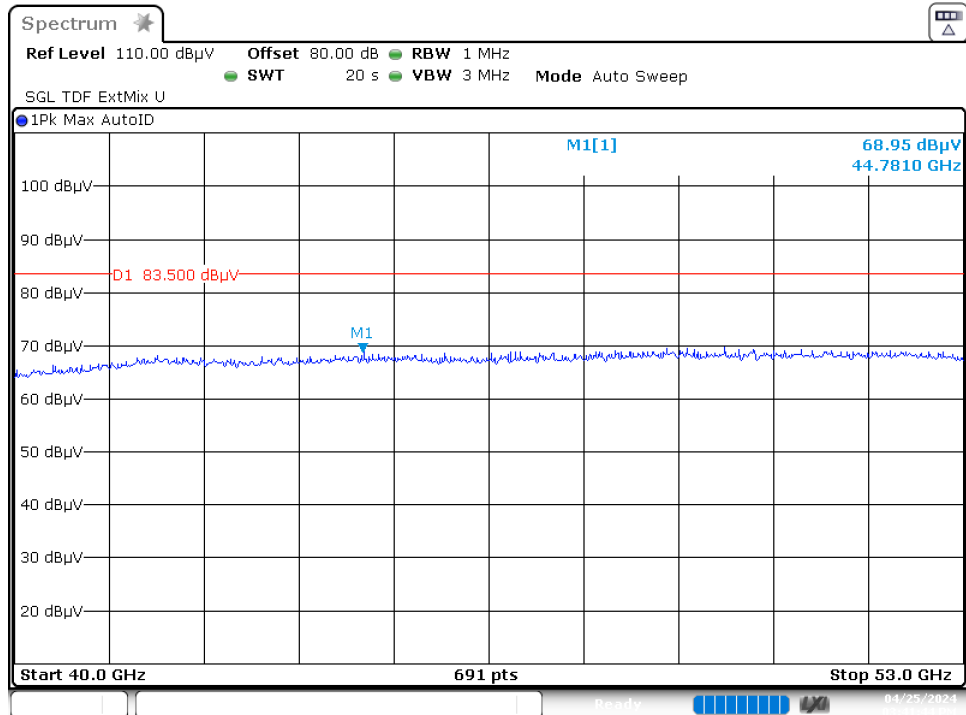
Date: 25.APR.2024 15:46:40

Vertical-Average



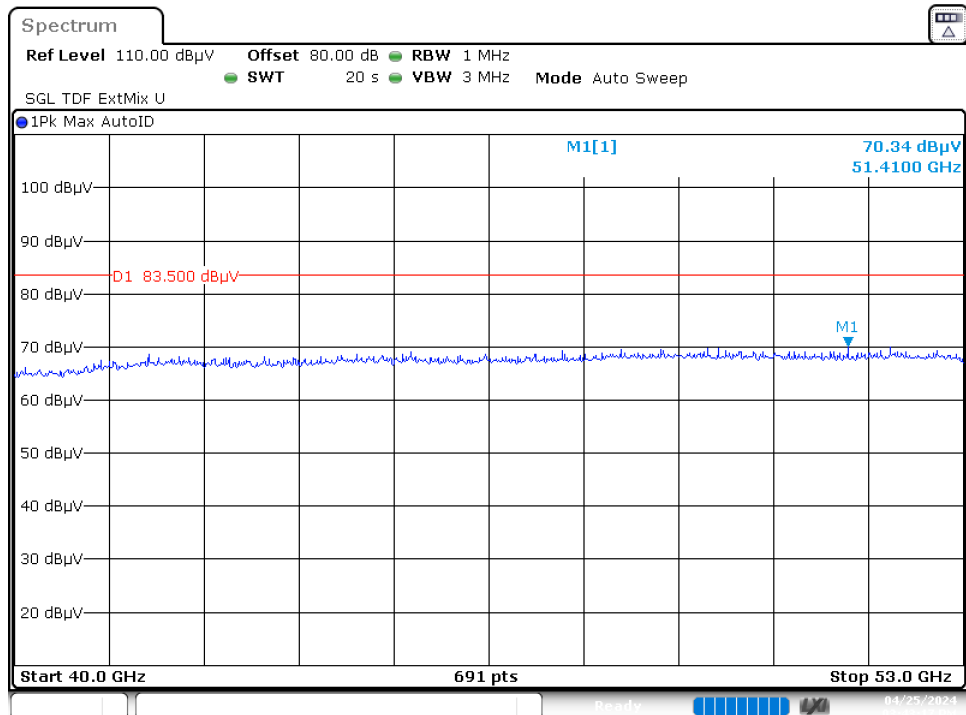
Date: 25.APR.2024 15:45:12

Horizontal-Peak



Date: 25.APR.2024 15:41:45

Vertical-Peak



Date: 25.APR.2024 15:43:18

Note: Field Strength @ 1m = (Field Strength @ 3m) + 9.54 dB
Field Strength @ 1m Peak limit = 74 dBμV/m + 9.54 dB = 83.54 dBμV/m
Field Strength @ 1m Average limit = 54 dBμV/m + 9.54 dB = 63.54 dBμV/m

Appendix A.2: Test Results of Radiated Spurious Emissions, Co-location

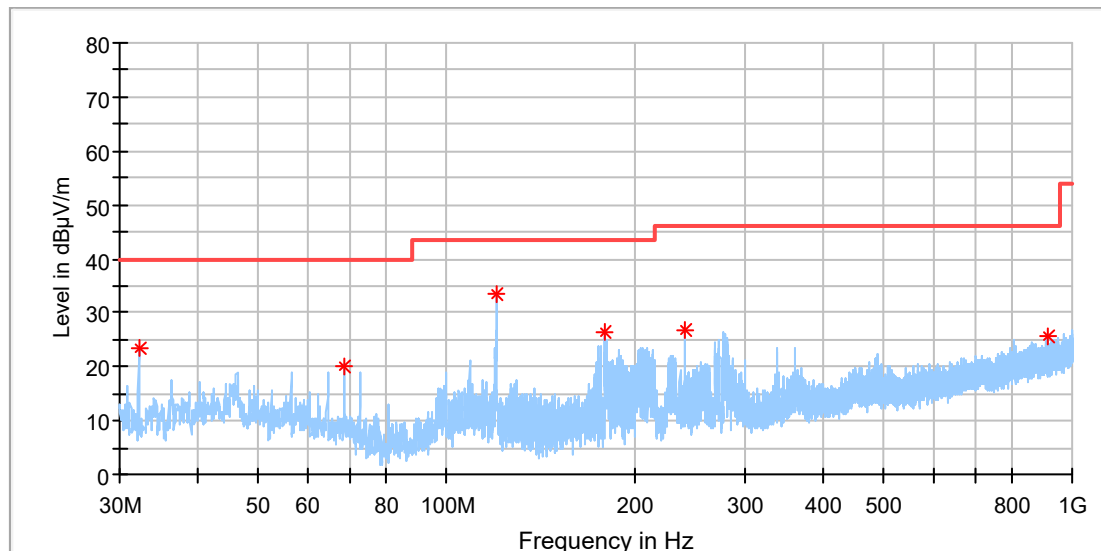
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 40GHz - 53GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 40GHz were reported.
- 3)

30 MHz - 1GHz

EUT Information

EUT Name:	3i Intelligent Cat Litter Box M10
Model:	HOME-M10
Test Mode:	WIFI 5G+10.525GHz
Order No/Sample No:	168472630/A003688785-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

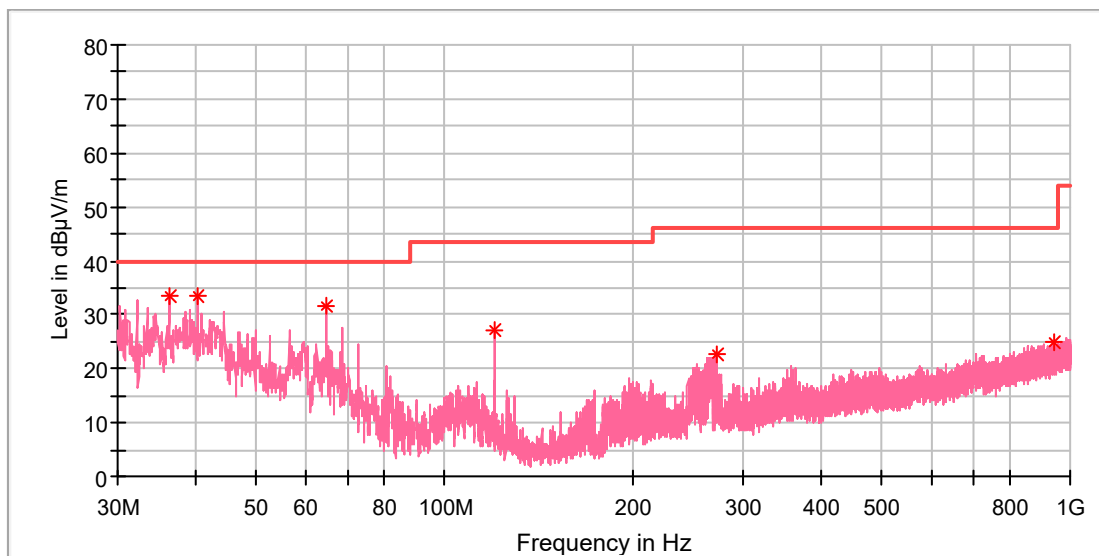
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.238462	23.49	40.00	16.51	100.0	H	225.0	-22.9
68.501539	20.27	40.00	19.73	100.0	H	302.0	-21.6
119.948846	33.49	43.50	10.01	100.0	H	95.0	-21.1
179.081539	26.25	43.50	17.25	100.0	H	118.0	-20.9
239.893077	26.87	46.00	19.13	100.0	H	175.0	-18.0
915.610000	25.80	46.00	20.20	100.0	H	240.0	-5.3

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 Name: 3i Intelligent Cat Litter Box M10
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Order No/Sample No: 168472630/A003688785-001
Test Voltage:: Adaptor
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.245
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Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.305000	33.59	40.00	6.41	100.0	V	224.0	-21.7
40.334231	33.34	40.00	6.66	100.0	V	256.0	-20.3
64.509615	31.46	40.00	8.54	100.0	V	17.0	-20.3
119.948846	27.32	43.50	16.18	100.0	V	121.0	-21.1
272.164231	22.74	46.00	23.26	100.0	V	0.0	-17.2
940.941923	25.03	46.00	20.97	100.0	V	287.0	-5.0

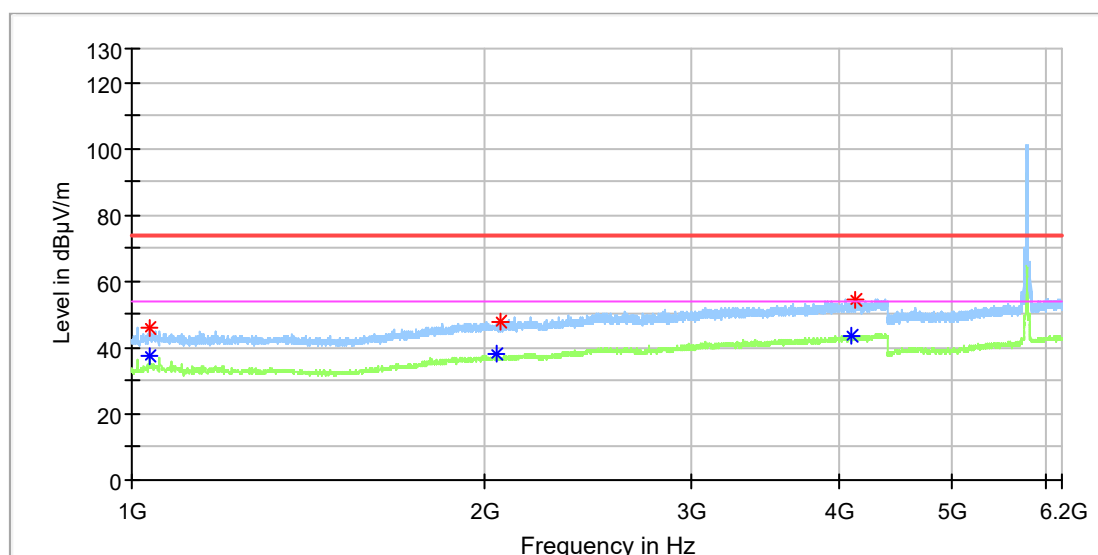
Final_Result

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

1GHz - 18GHz

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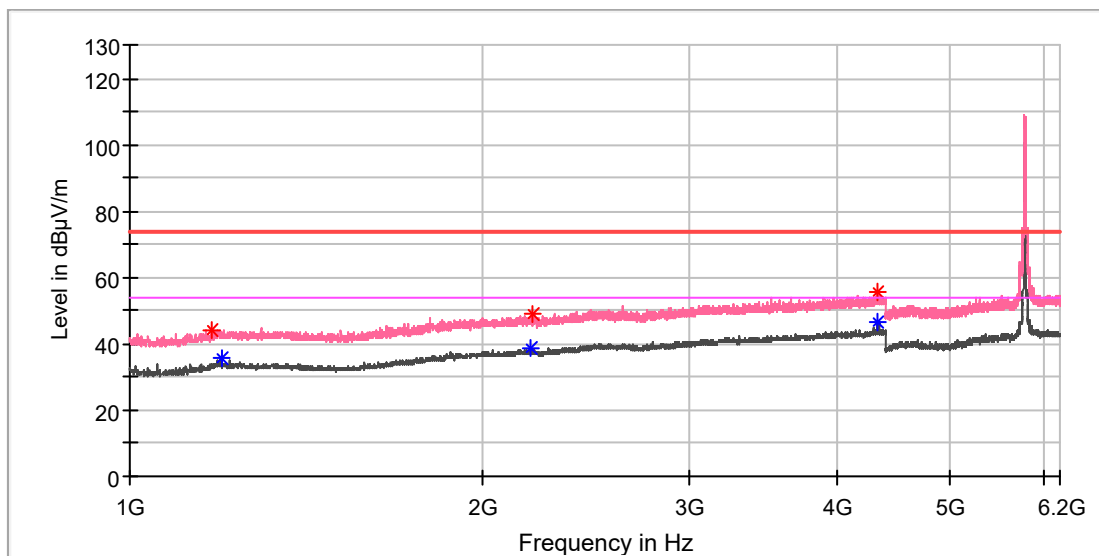
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1033.500000	---	37.38	54.00	16.62	150.0	H	0.0	-0.2
1034.000000	46.18	---	74.00	27.82	150.0	H	0.0	-0.2
2040.500000	---	38.01	54.00	15.99	150.0	H	0.0	5.9
2060.000000	47.82	---	74.00	26.18	150.0	H	0.0	5.9
4109.100000	---	43.75	54.00	10.25	150.0	H	293.0	10.1
4136.600000	54.59	---	74.00	19.41	150.0	H	356.0	10.2

Final_Result

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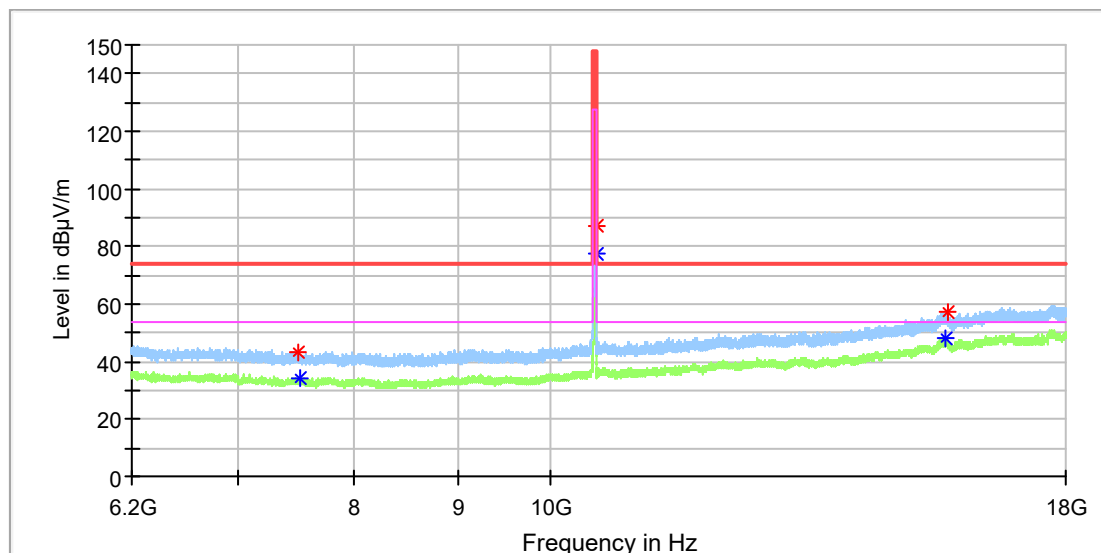
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1177.000000	44.32	---	74.00	29.68	150.0	V	232.0	1.0
1196.000000	---	35.47	54.00	18.53	150.0	V	329.0	1.1
2195.000000	---	38.61	54.00	15.39	150.0	V	240.0	6.3
2200.000000	48.97	---	74.00	25.03	150.0	V	295.0	6.3
4334.500000	55.76	---	74.00	18.24	150.0	V	357.0	10.5
4337.500000	---	46.36	54.00	7.64	150.0	V	76.0	10.5

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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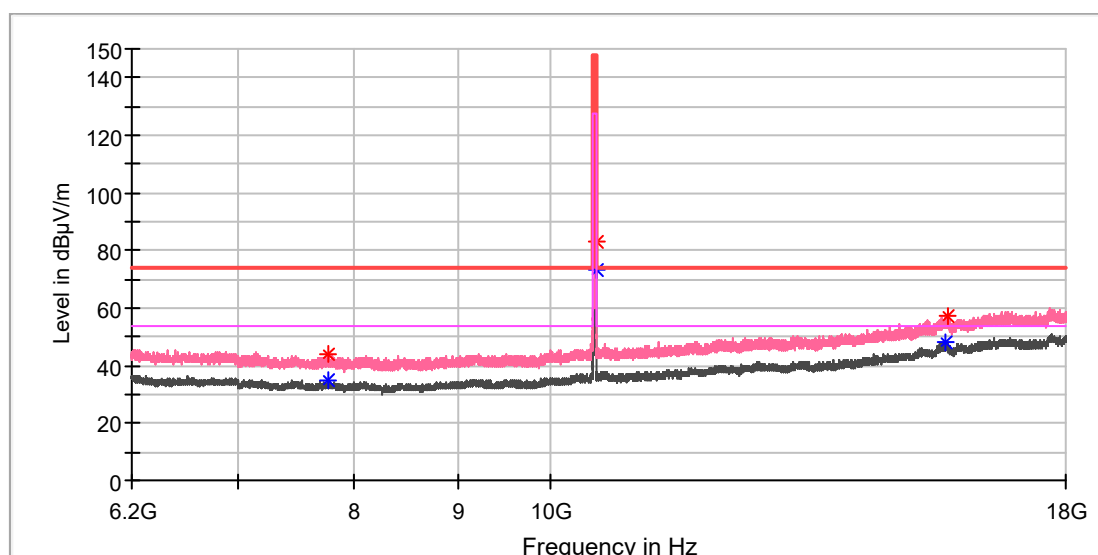
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7496.033333	43.25	---	74.00	30.75	150.0	H	0.0	8.7
7521.600000	---	34.47	54.00	19.53	150.0	H	32.0	8.7
10528.633333	87.39	---	148.00	60.61	150.0	H	122.0	12.0
10528.633333	---	77.58	128.00	50.42	150.0	H	122.0	12.0
15681.300000	---	47.90	54.00	6.10	150.0	H	0.0	19.0
15724.566667	56.91	---	74.00	17.09	150.0	H	0.0	19.1

Final_Result

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

EUT Information

EUT Name: 3i Intelligent Cat Litter Box M10
Model: HOME-M10
Test Mode: WIFI 5G+10.525GHz
Order No/Sample No: 168472630/A003688785-001
Test Voltage:: Adaptor
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.245
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)
7756.616667	---	34.60	54.00	19.40	150.0	V	321.0	8.8
7764.975000	43.61	---	74.00	30.39	150.0	V	262.0	8.8
10528.141667	---	73.05	128.00	54.95	150.0	V	156.0	12.0
10528.633333	83.07	---	148.00	64.93	150.0	V	156.0	12.0
15675.400000	---	48.04	54.00	5.96	150.0	V	309.0	19.0
15714.241667	57.00	---	74.00	17.00	150.0	V	168.0	19.1

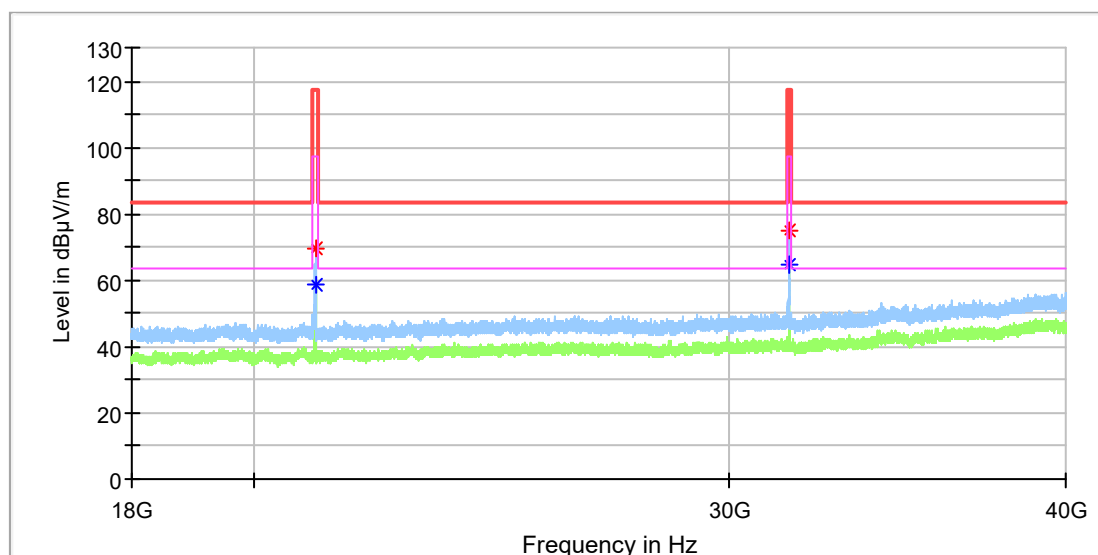
Final_Result

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

18GHz - 40GHz

EUT Information

EUT Name:	3i Intelligent Cat Litter Box M10
Model:	HOME-M10
Test Mode:	WIFI 5G+10.525GHz
Order No/Sample No:	168472630/A003688785-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.245
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)
21057.312500	---	58.85	97.50	38.65	150.0	H	95.0	-12.2
21058.000000	69.49	---	117.50	48.01	150.0	H	70.0	-12.2
31587.062500	---	64.63	97.50	32.87	150.0	H	82.0	-10.4
31587.750000	74.27	---	117.50	43.23	150.0	H	82.0	-10.4

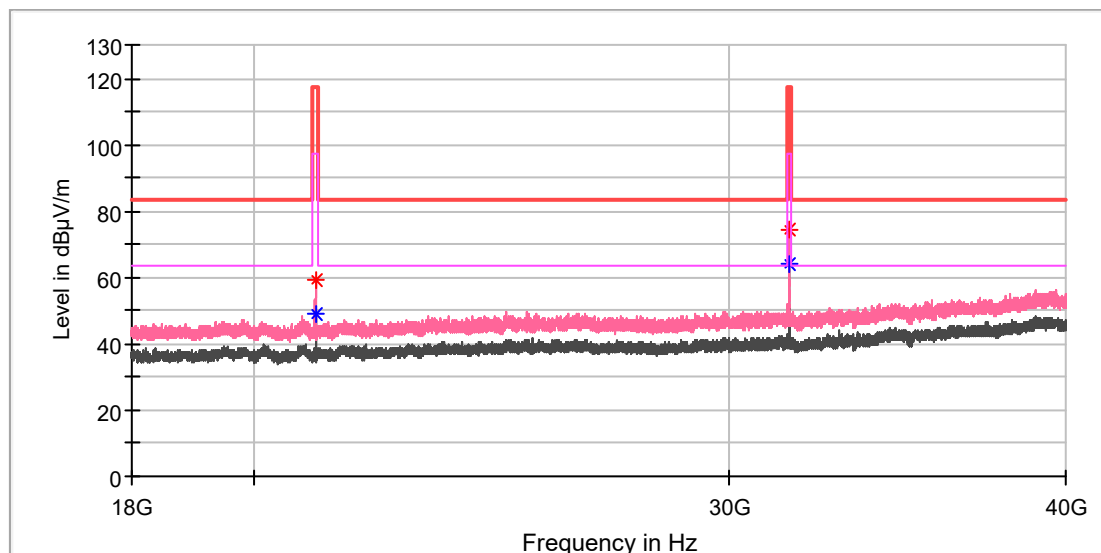
Final_Result

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

Note: Field Strength @ 1m = (Field Strength @ 3m) + 9.54 dB
 Field Strength @ 1m Peak limit = 74 dBµV/m + 9.54 dB = 83.54 dBµV/m
 Field Strength @ 1m Average limit = 54 dBµV/m + 9.54 dB = 63.54 dBµV/m

EUT Information

EUT Name: 3i Intelligent Cat Litter Box M10
Model: HOME-M10
Test Mode: WIFI 5G+10.525GHz
Order No/Sample No: 168472630/A003688785-001
Test Voltage:: Adaptor
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.245
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

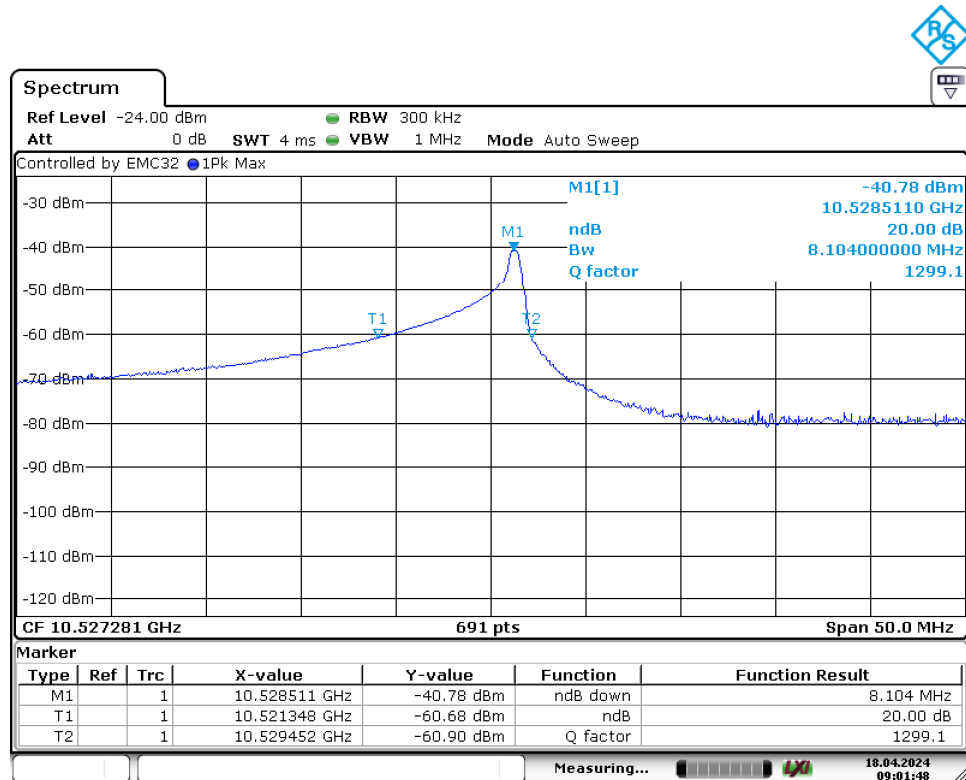
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21058.000000	---	49.03	97.50	48.47	150.0	V	95.0	-12.2
21058.687500	59.47	---	117.50	58.03	150.0	V	95.0	-12.2
31587.750000	---	63.98	97.50	33.52	150.0	V	70.0	-10.4
31587.750000	74.27	---	117.50	43.23	150.0	V	70.0	-10.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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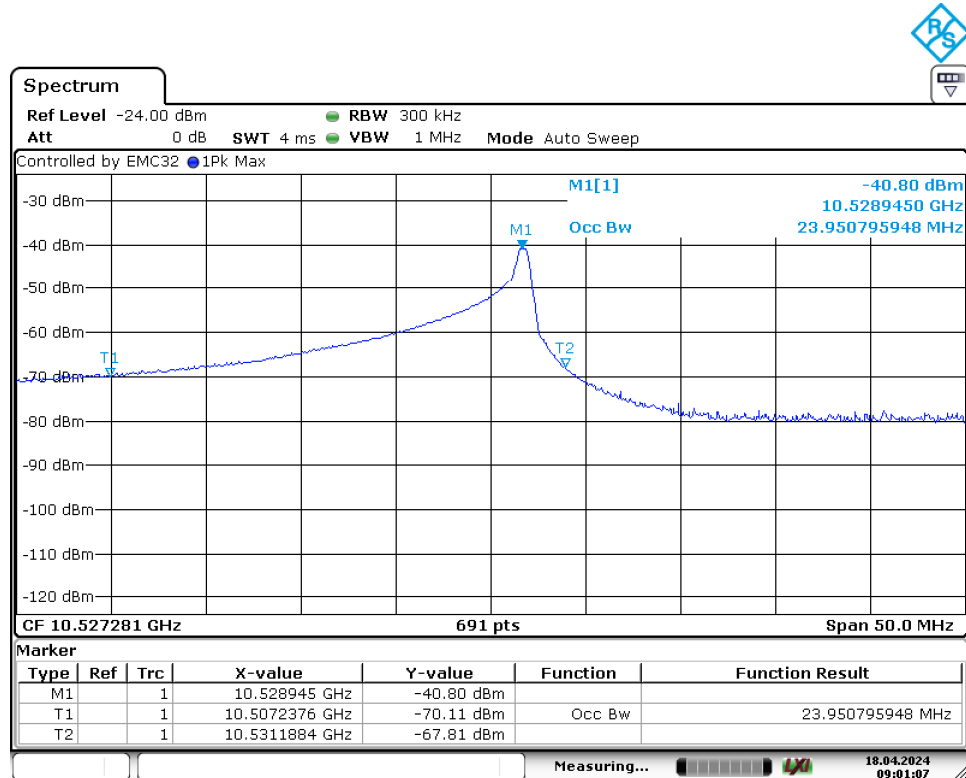
Note: Field Strength @ 1m = (Field Strength @ 3m) + 9.54 dB
Field Strength @ 1m Peak limit = 74 dBµV/m + 9.54 dB = 83.54 dBµV/m
Field Strength @ 1m Average limit = 63.98 dBµV/m + 9.54 dB = 73.52 dBµV/m

Appendix A.3: Test Results of 20dB Bandwidth



Date: 18.APR.2024 09:01:48

Appendix A.4: Test Results of 99% Bandwidth

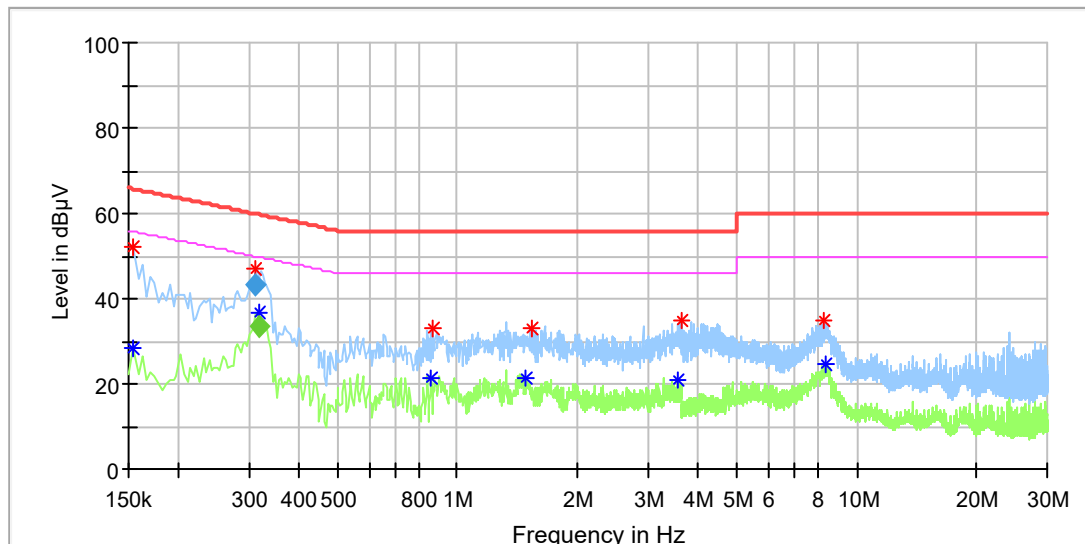


Date: 18.APR.2024 09:01:06

Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name	3i Intelligent Cat Litter Box M10
Order Number:	168472630-P01404965
Model:	HOME-M10
Test Mode:	Normal operation
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Junhua Sun/ Charlie Zha
Tem./Hum./Pressure:	23.3°C/51.1%/101kPa
Remark:	SR1



Critical Freqs

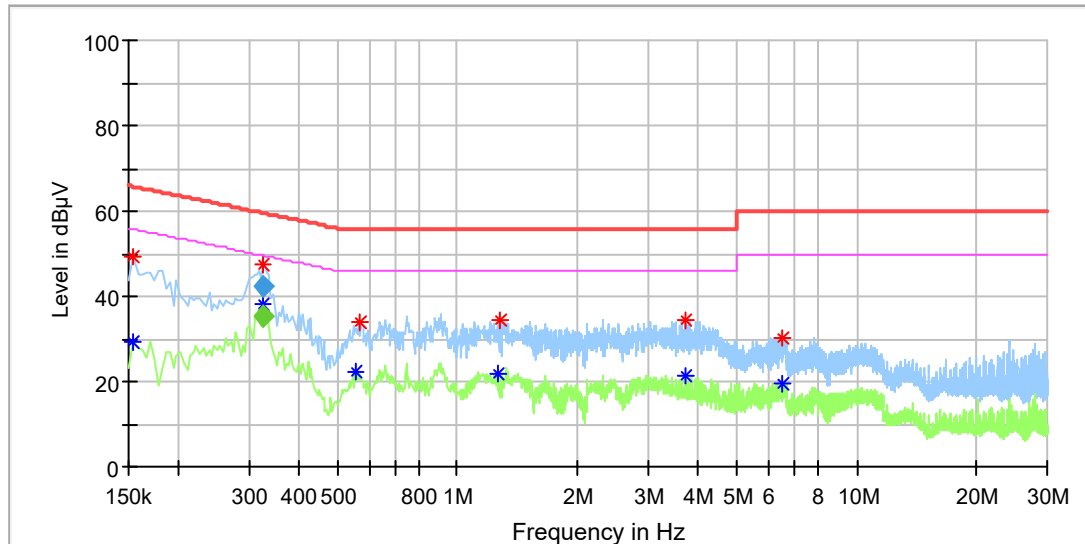
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	52.25	---	65.78	13.53	L1	9.6
0.154000	---	28.46	55.78	27.32	L1	9.6
0.312500	46.92	---	59.90	12.98	L1	9.8
0.316500	---	36.68	49.80	13.12	L1	9.8
0.860000	---	21.54	46.00	24.46	L1	9.7
0.864000	32.88	---	56.00	23.12	L1	9.7
1.480000	---	21.42	46.00	24.58	L1	9.8
1.540000	33.12	---	56.00	22.88	L1	9.8
3.576000	---	21.03	46.00	24.97	L1	10.0
3.636000	35.10	---	56.00	20.90	L1	10.0
8.240000	34.90	---	60.00	25.10	L1	9.9
8.408000	---	24.44	50.00	25.56	L1	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.312500	43.10	---	59.90	16.80	1000.0	9.000	L1	9.8
0.316500	---	33.54	49.80	16.26	1000.0	9.000	L1	9.9

EUT Information

EUT Name: 3i Intelligent Cat Litter Box M10
Order Number: 168472630-P01404965
Model: HOME-M10
Test Mode: Normal operation
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Junhua Sun/ Charlie Zha
Tem./Hum./Pressure: 23.3°C/51.1%/101kPa
Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	29.37	55.78	26.41	N	9.8
0.154000	49.30	---	65.78	16.48	N	9.8
0.324500	---	37.99	49.59	11.60	N	9.7
0.324500	47.52	---	59.59	12.07	N	9.7
0.556000	---	22.47	46.00	23.53	N	9.7
0.568000	33.77	---	56.00	22.23	N	9.7
1.256000	---	21.90	46.00	24.10	N	9.7
1.276000	34.27	---	56.00	21.73	N	9.7
3.736000	34.49	---	56.00	21.51	N	10.0
3.736000	---	21.17	46.00	24.83	N	10.0
6.512000	---	19.50	50.00	30.50	N	9.9
6.552000	30.29	---	60.00	29.71	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.324500	42.25	---	59.59	17.34	1000.0	9.000	N	9.7
0.324500	---	35.29	49.59	14.30	1000.0	9.000	N	9.7