Appendix A: Test Results

APPENDIX A: TEST RESULTS **1**

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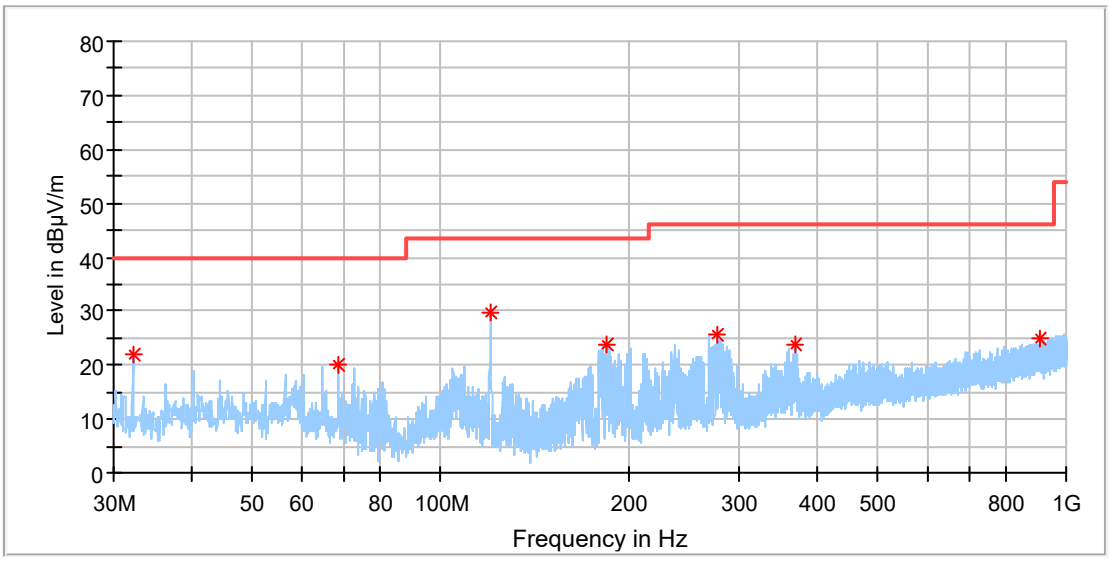
Appendix A.1: Test Results of Field strength of fundamental & harmonics

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
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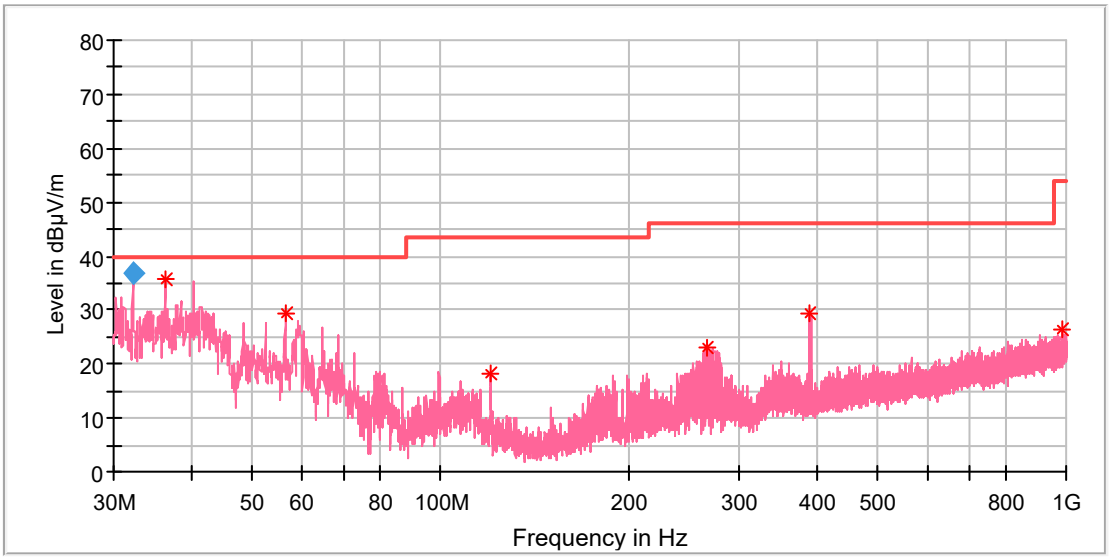

Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.267692	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.

EUT Information

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:56%
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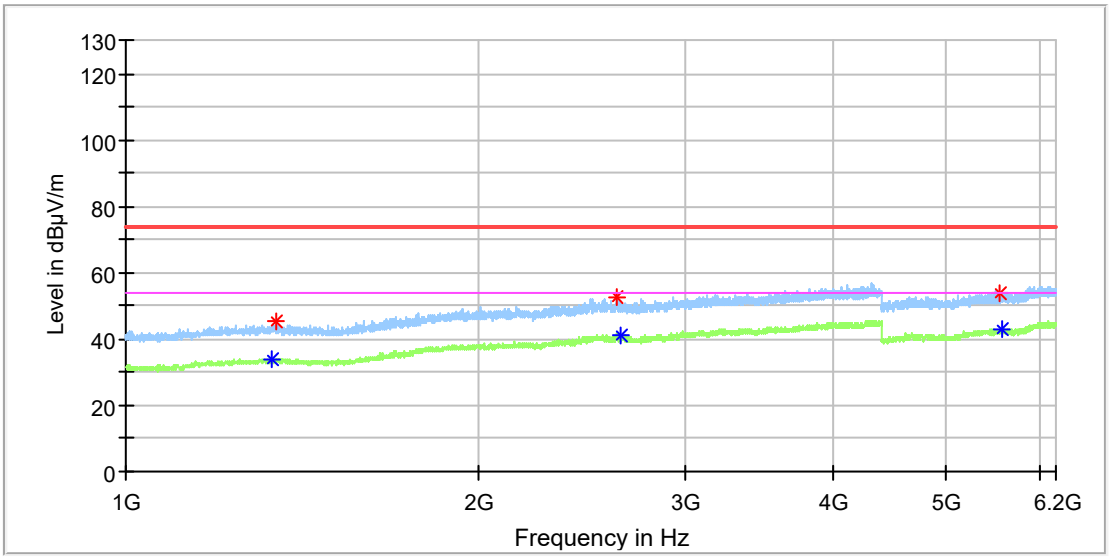

Critical_Freqs

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)
---	---	---	---	---		---	---

EUT Information

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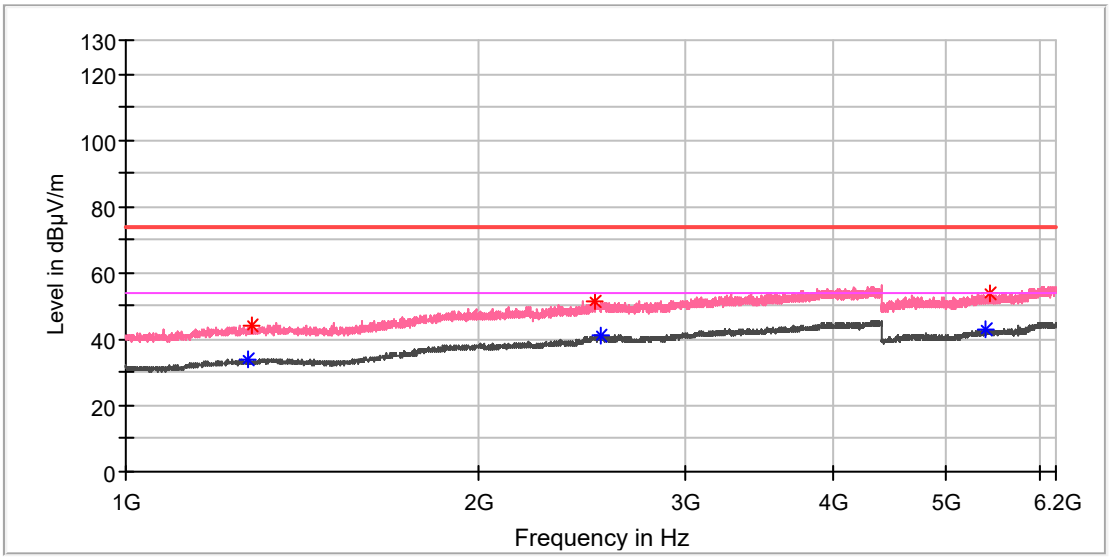

Critical_Freqs

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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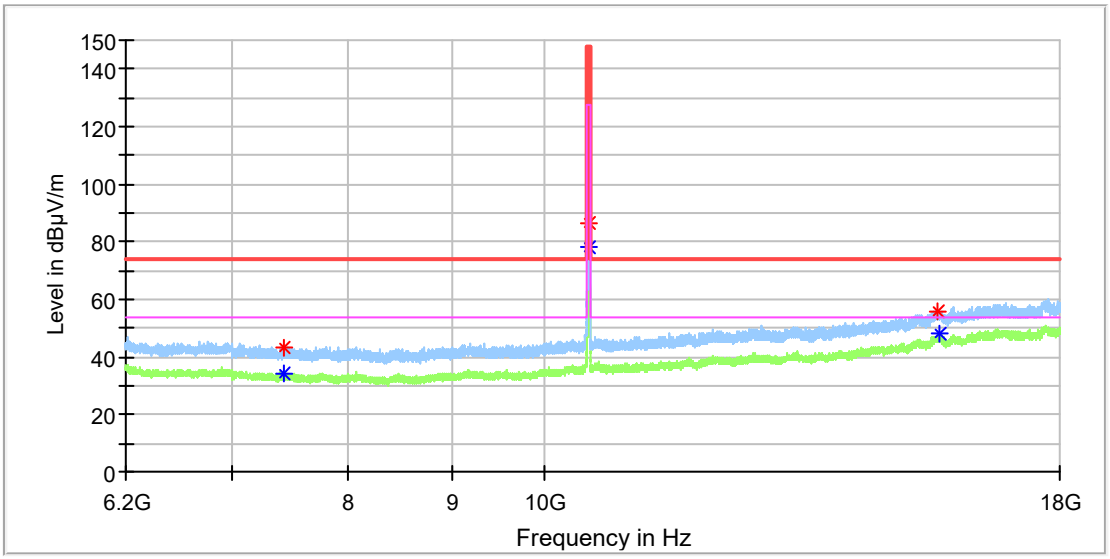


Critical_Freqs

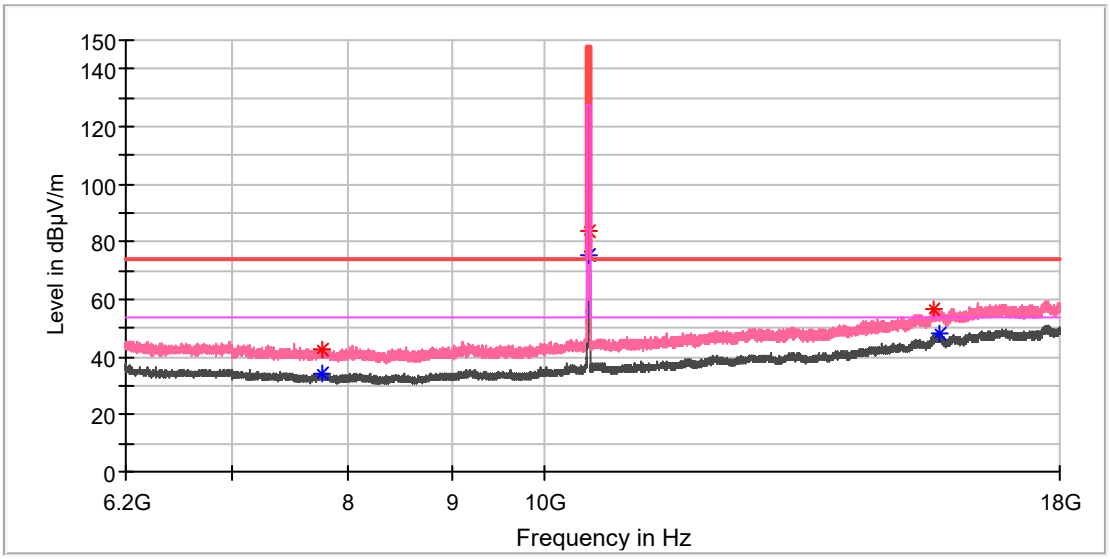
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7420.316667	43.22	---	74.00	30.78	150.0	H	42.0	8.4
7423.758333	---	34.50	54.00	19.50	150.0	H	237.0	8.4
10526.666667	86.79	---	148.00	61.21	150.0	H	341.0	12.0
10526.666667	---	78.02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

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)
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

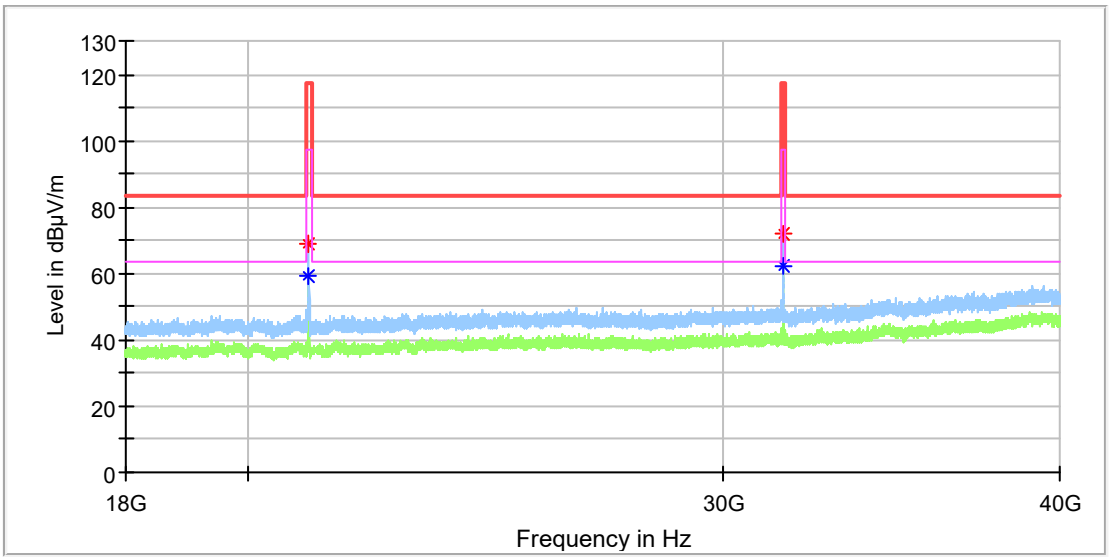
Final_Result

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

18GHz - 40GHz

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)
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

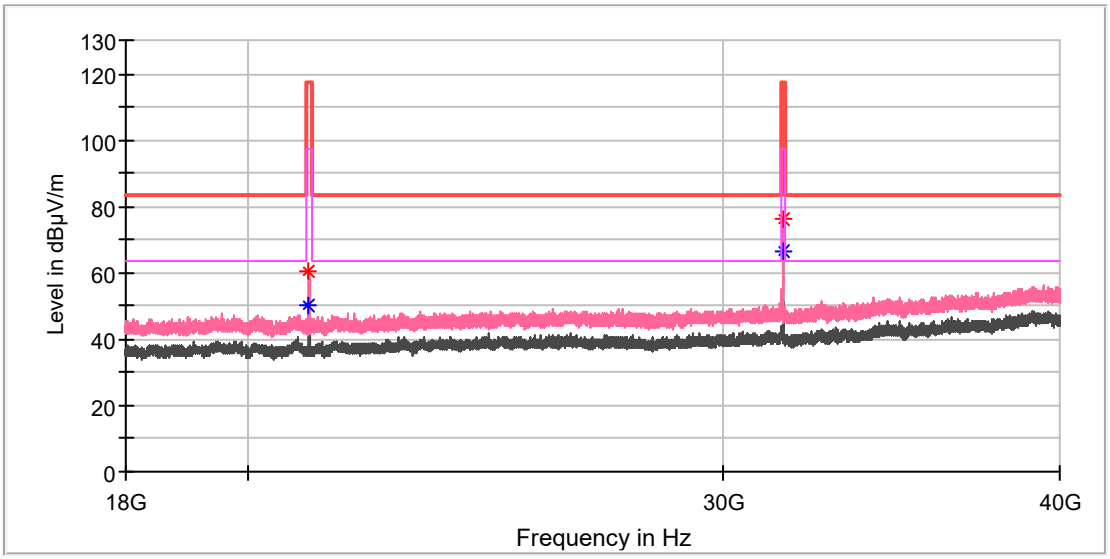
Final_Result

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

Note: Field Strength @ 1m = (Field Strengh @ 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

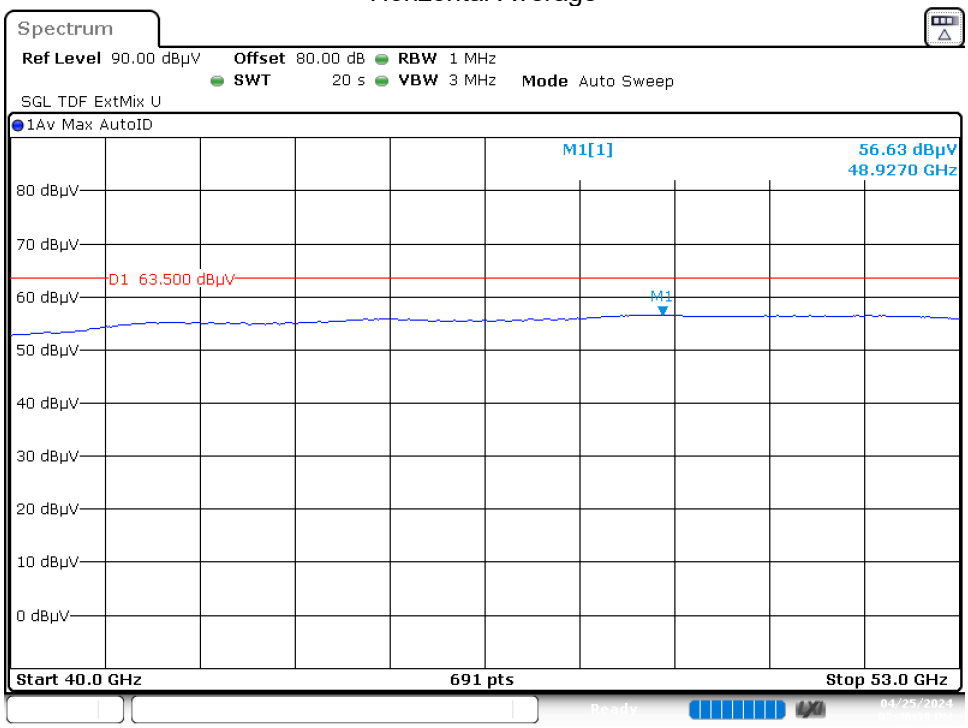
Final_Result

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

Note: Field Strength @ 1m = (Field Strengh @ 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



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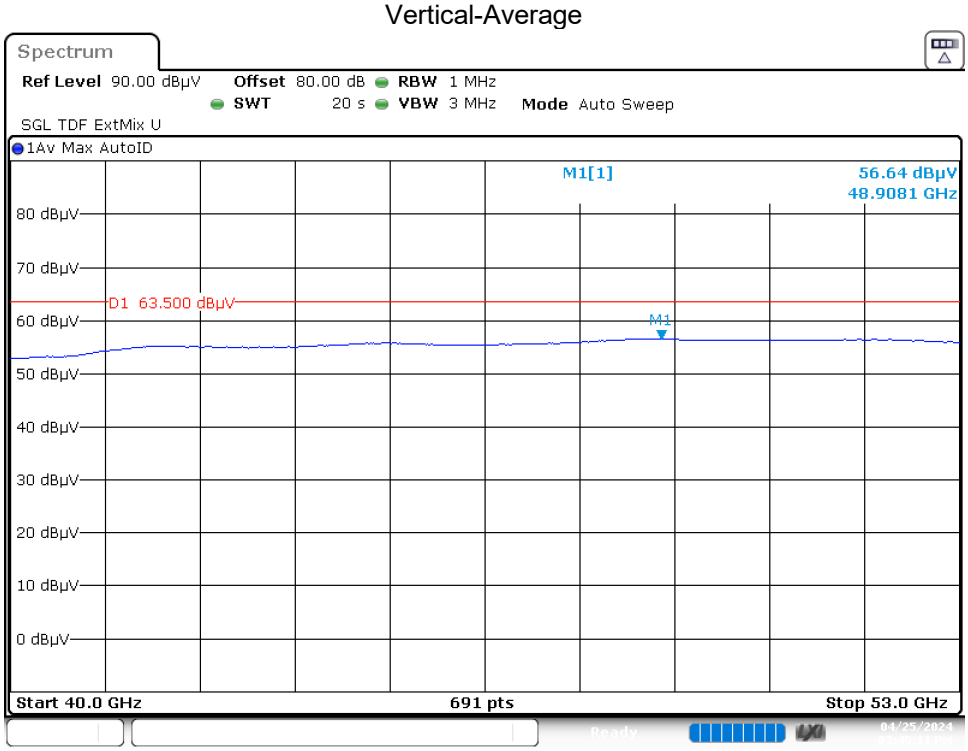
Vertical-Average



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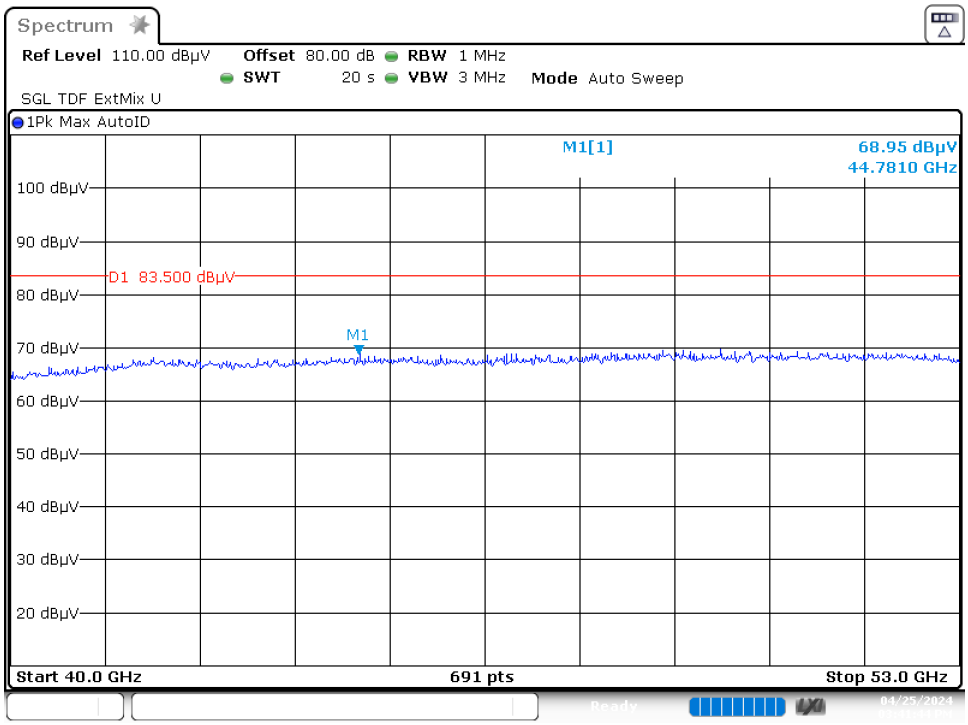
Horizontal-Peak



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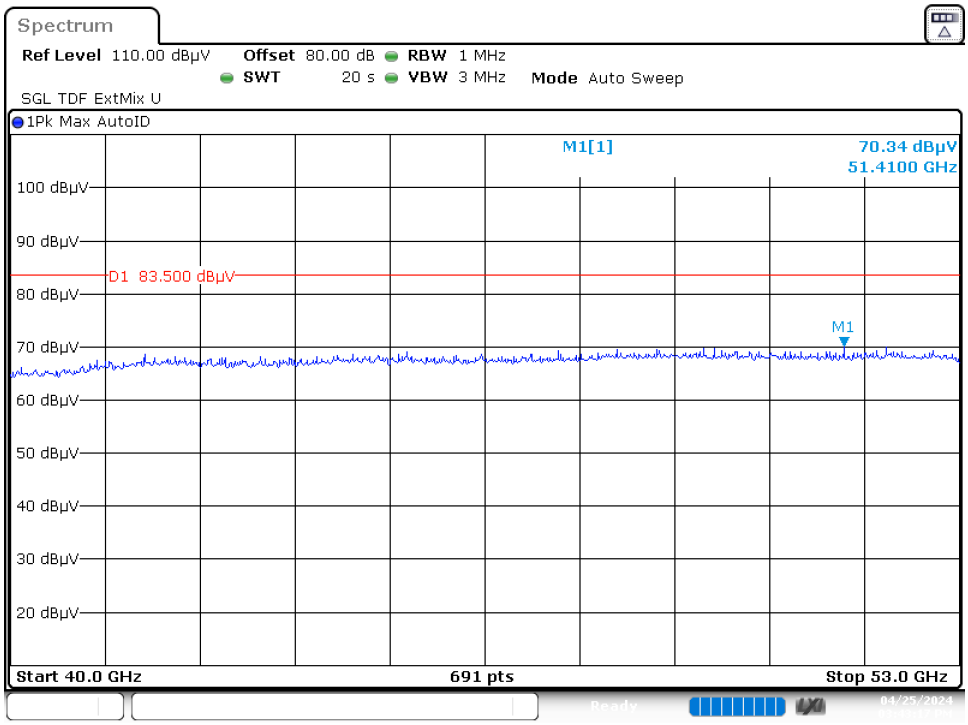
Vertical-Peak



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Note: Field Strength @ 1m = (Field Strengh @ 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

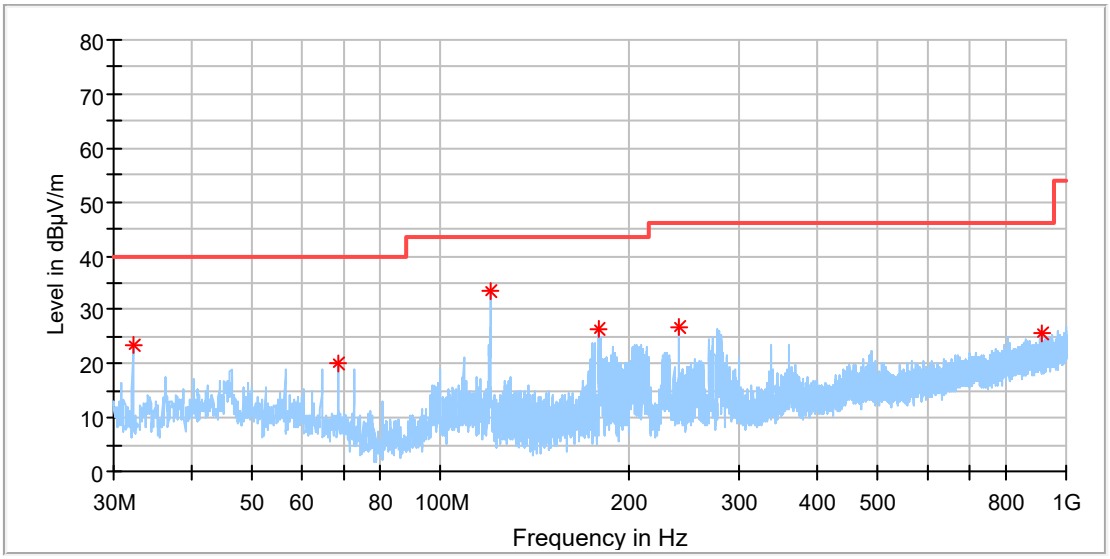
Appendix A.2: Test Results of Radiated Spurious Emissions, Co-location

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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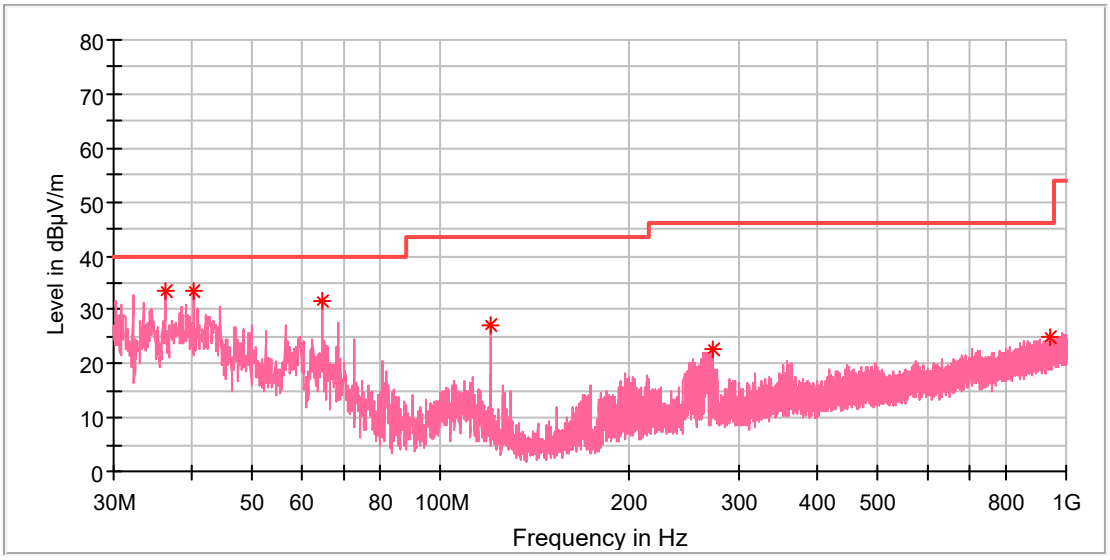

Critical_Freqs

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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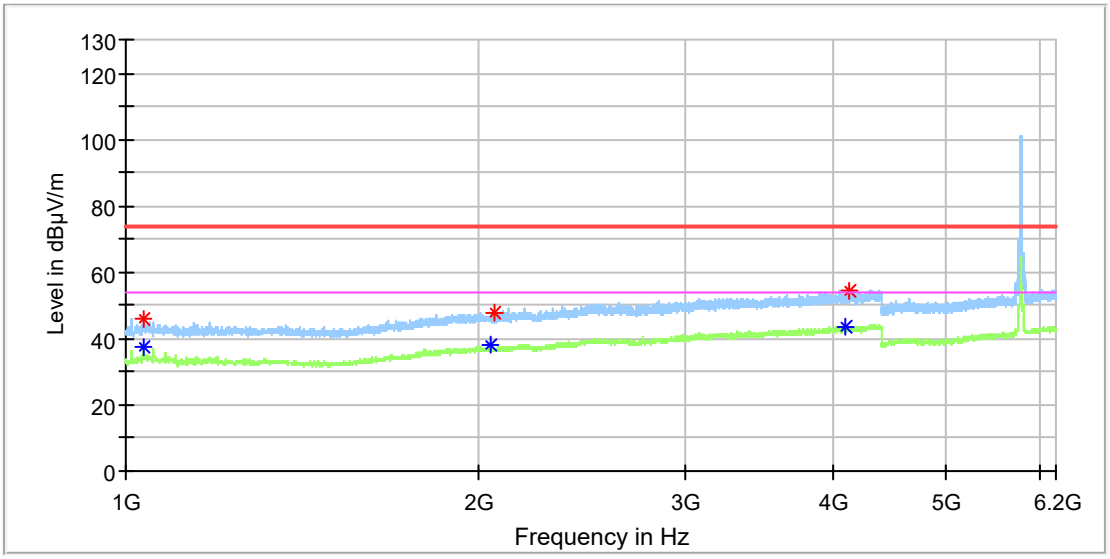

Critical_Freqs

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

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

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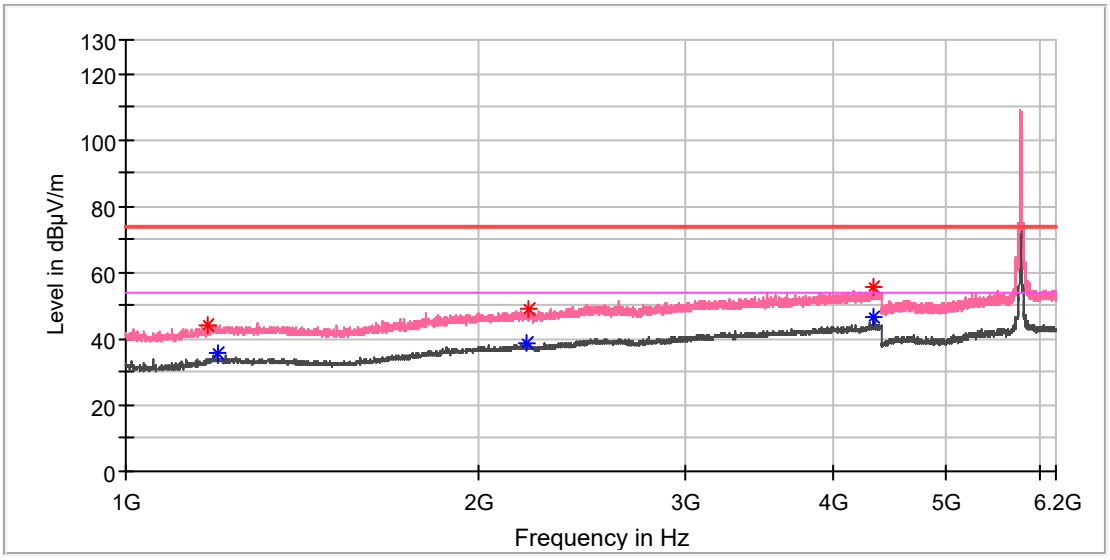
Reviewed By:	Terry Yin



Critical_Freqs

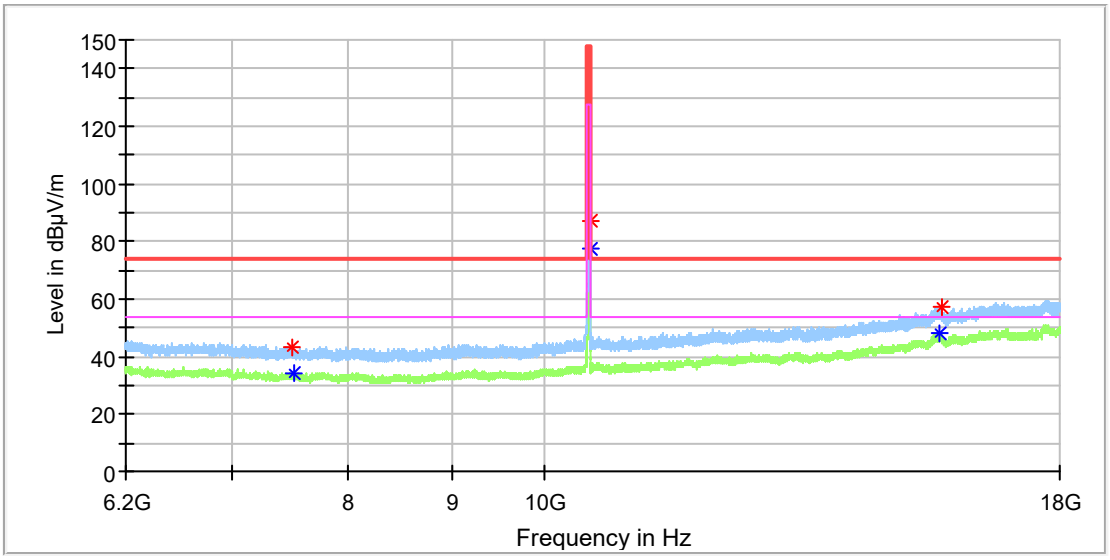
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1177.000000	44.32	---	74.00	29.68	150.0	V	232.0	1.0
1196.000000	---	35.47	54.00	18.53	150.0	V	329.0	1.1
2195.000000	---	38.61	54.00	15.39	150.0	V	240.0	6.3
2200.000000	48.97	---	74.00	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)
---	---	---	---	---		---	---

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

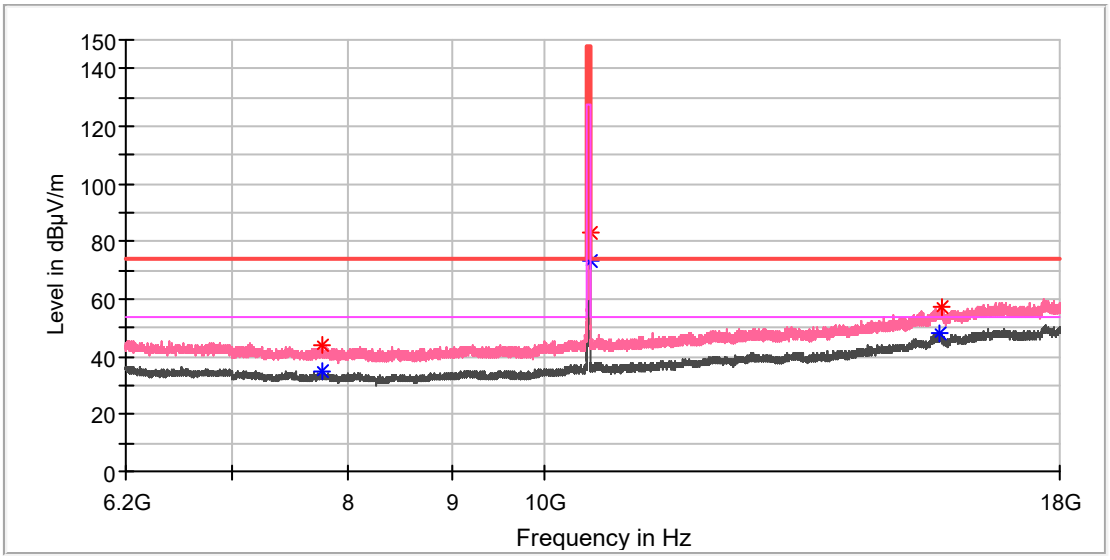
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7496.033333	43.25	---	74.00	30.75	150.0	H	0.0	8.7
7521.600000	---	34.47	54.00	19.53	150.0	H	32.0	8.7
10528.633333	87.39	---	148.00	60.61	150.0	H	122.0	12.0
10528.633333	---	77.58	128.00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

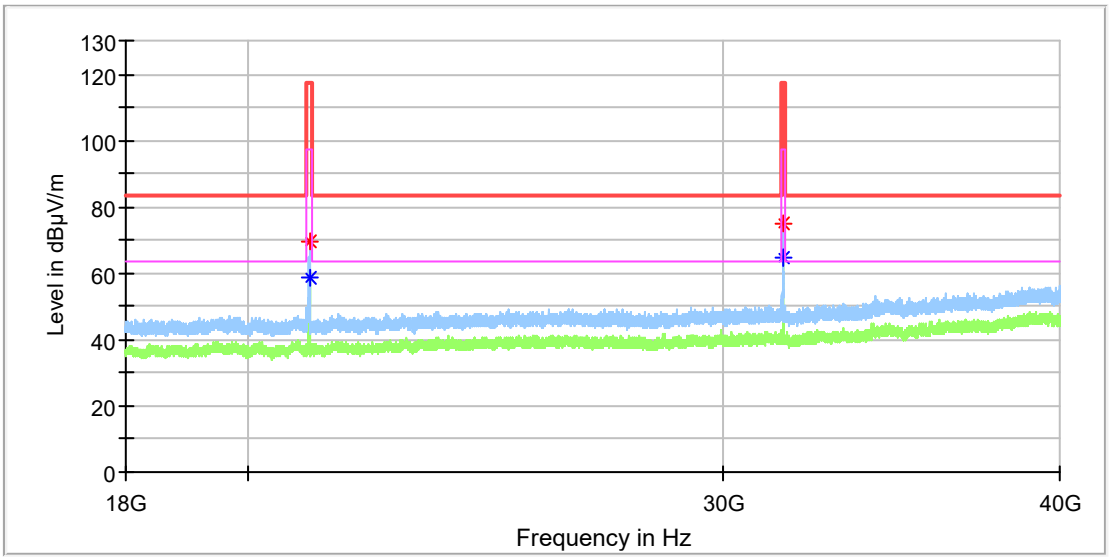
Final_Result

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

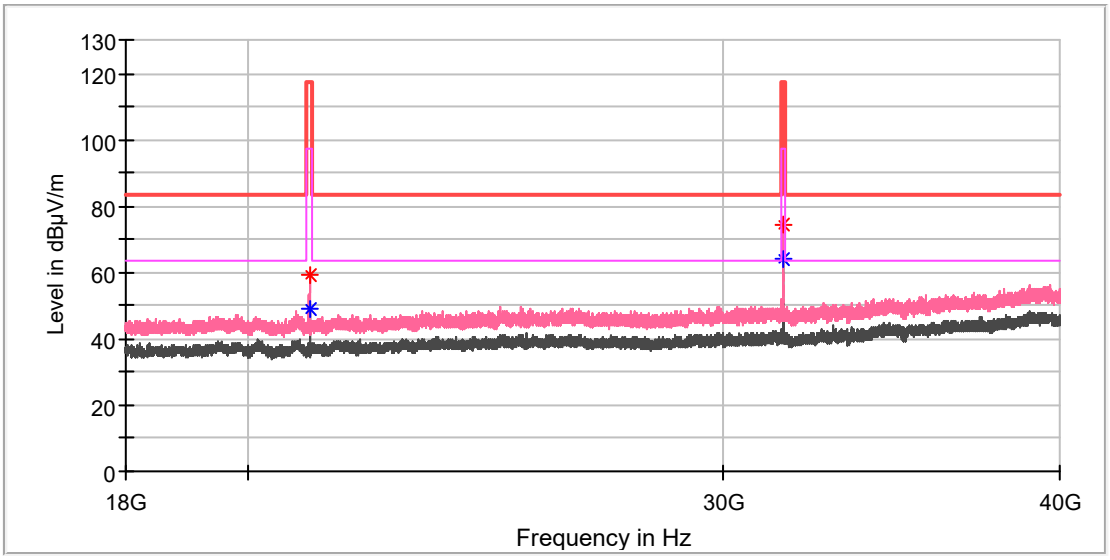
Final_Result

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

Note: Field Strength @ 1m = (Field Strengh @ 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

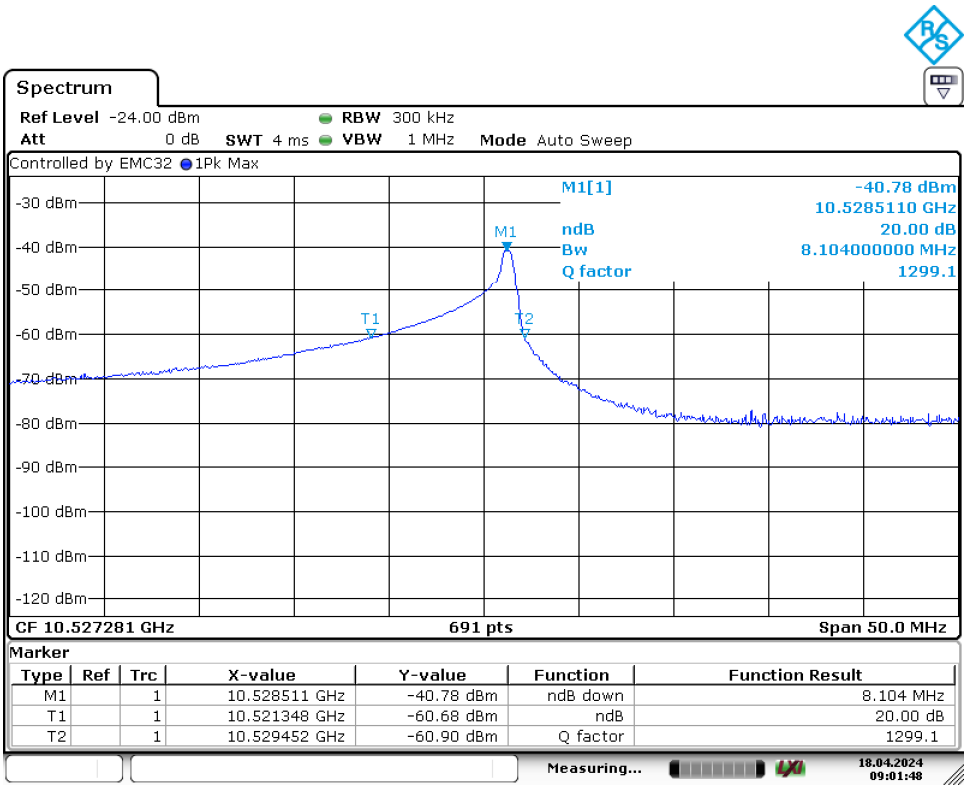
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21058.000000	---	49.03	97.50	48.47	150.0	V	95.0	-12.2
21058.687500	59.47	---	117.50	58.03	150.0	V	95.0	-12.2
31587.750000	---	63.98	97.50	33.52	150.0	V	70.0	-10.4
31587.750000	74.27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

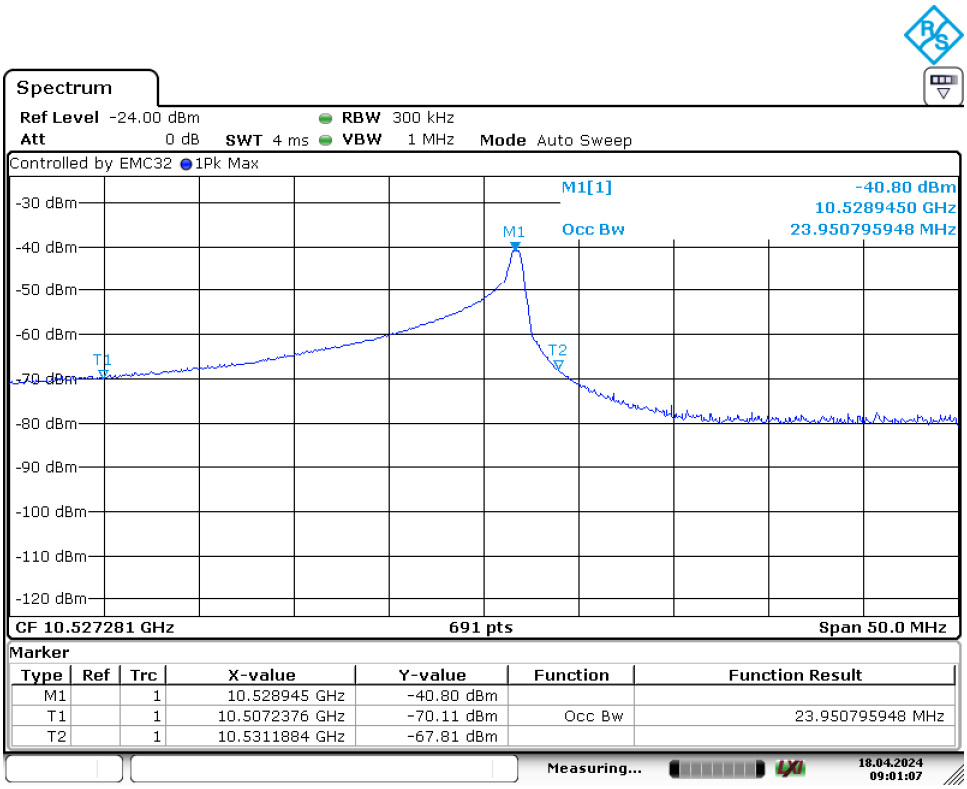
Note: Field Strength @ 1m = (Field Strengh @ 3m) + 9.54 dB
Field Strength @ 1m Peak limit = 74 dBµV/m + 9.54 dB =83.54 dBµV/m
Field Strength @ 1m Average limit = 54 dBµV/m + 9.54 dB =63.54 dBµV/m

Appendix A.3: Test Results of 20dB Bandwidth



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

Appendix A.4: Test Results of 99% Bandwidth

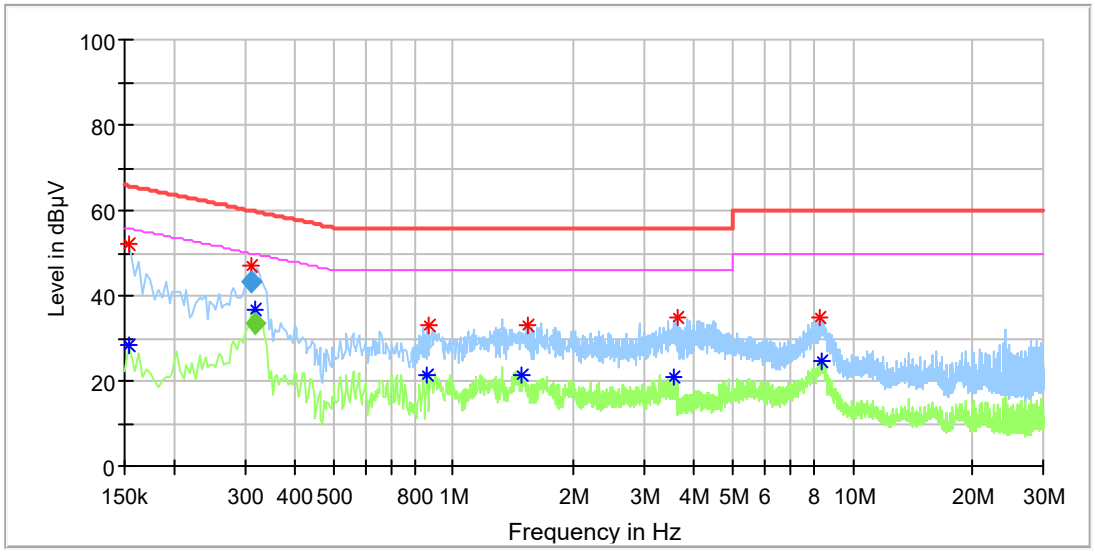


Date: 18.APR.2024 09:01:06

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

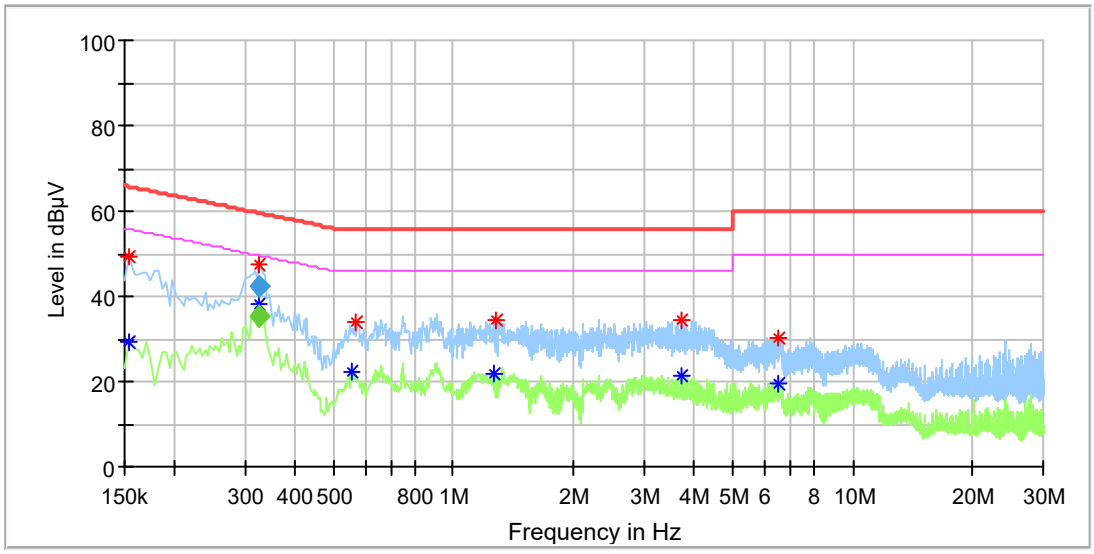
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	52.25	---	65.78	13.53	L1	9.6
0.154000	---	28.46	55.78	27.32	L1	9.6
0.312500	46.92	---	59.90	12.98	L1	9.8
0.316500	---	36.68	49.80	13.12	L1	9.8
0.860000	---	21.54	46.00	24.46	L1	9.7
0.864000	32.88	---	56.00	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