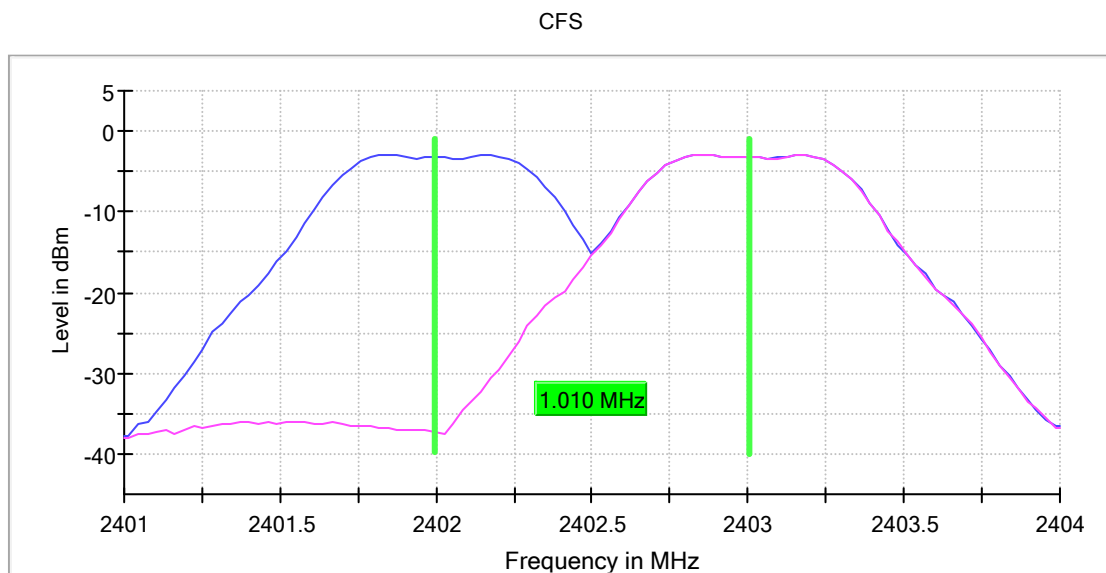


Appendix B.4: Test Plots of Carrier Frequency Separation

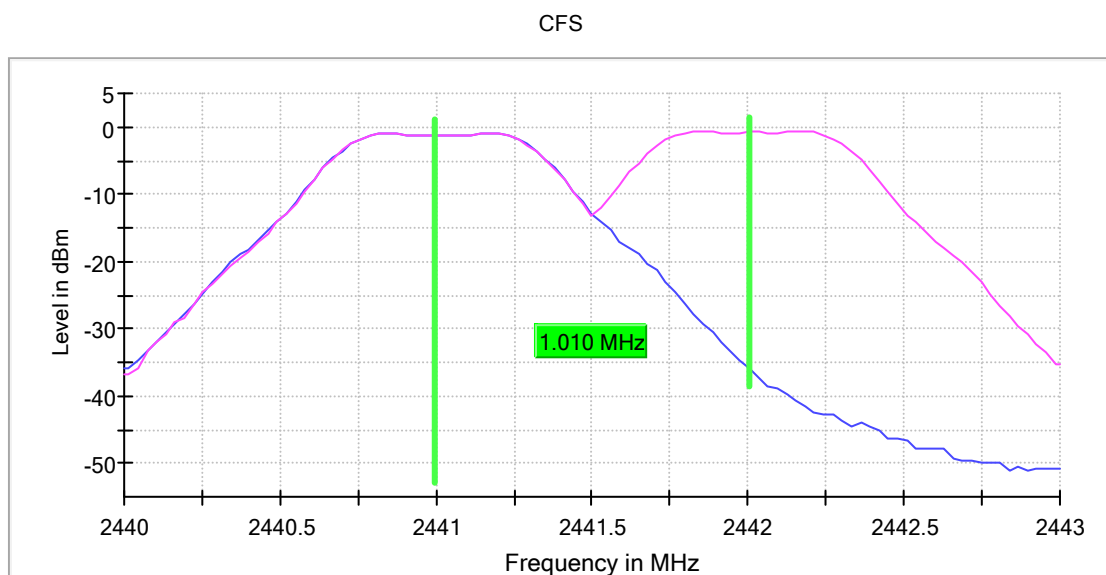
BDR, Low Channel

RBW=300KHz, VBW=300KHz

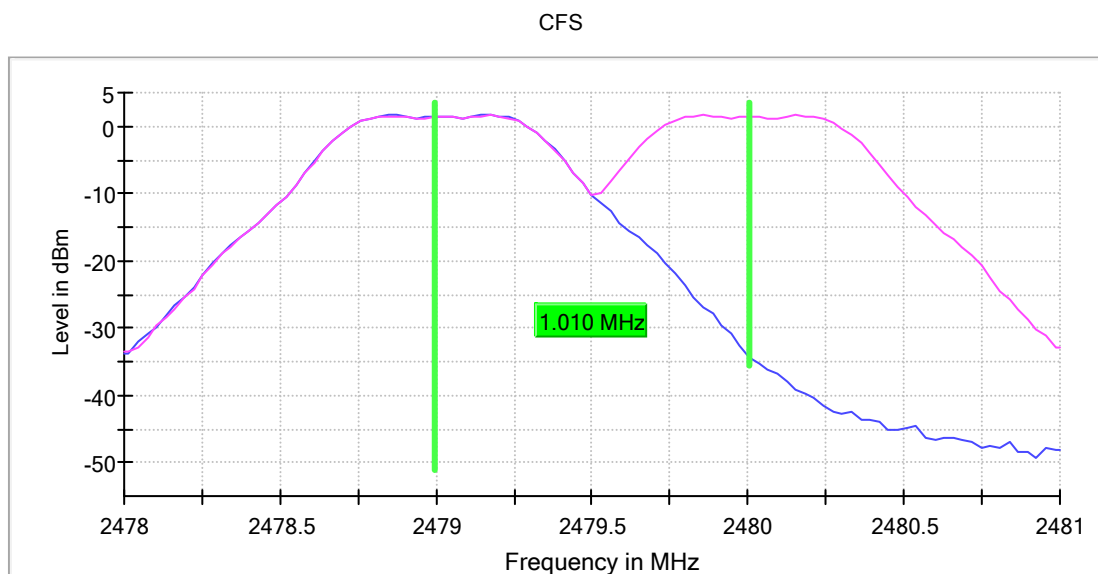


BDR, Middle Channel

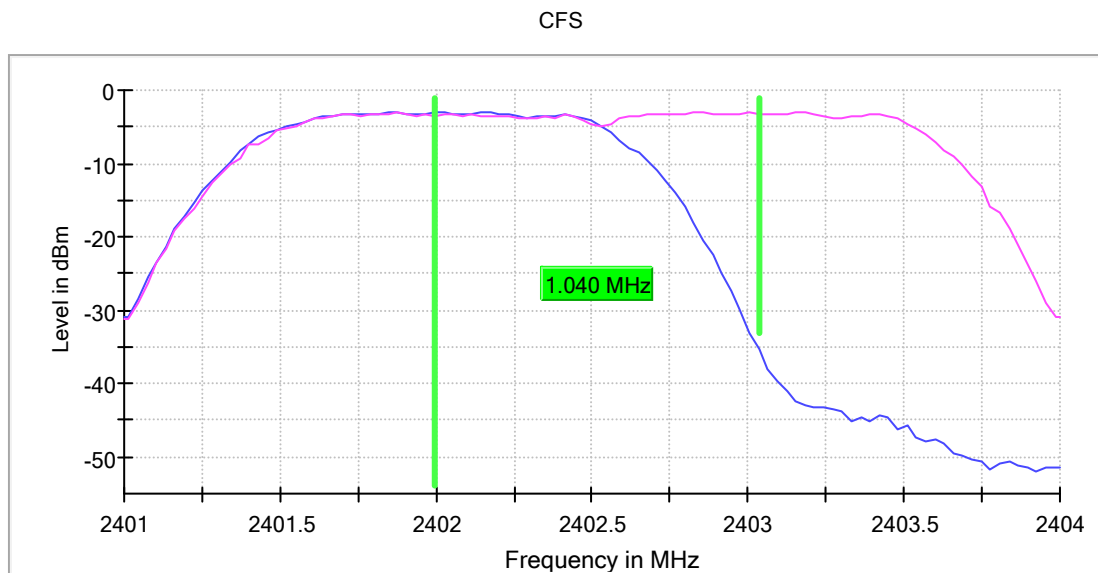
RBW=300KHz, VBW=300KHz



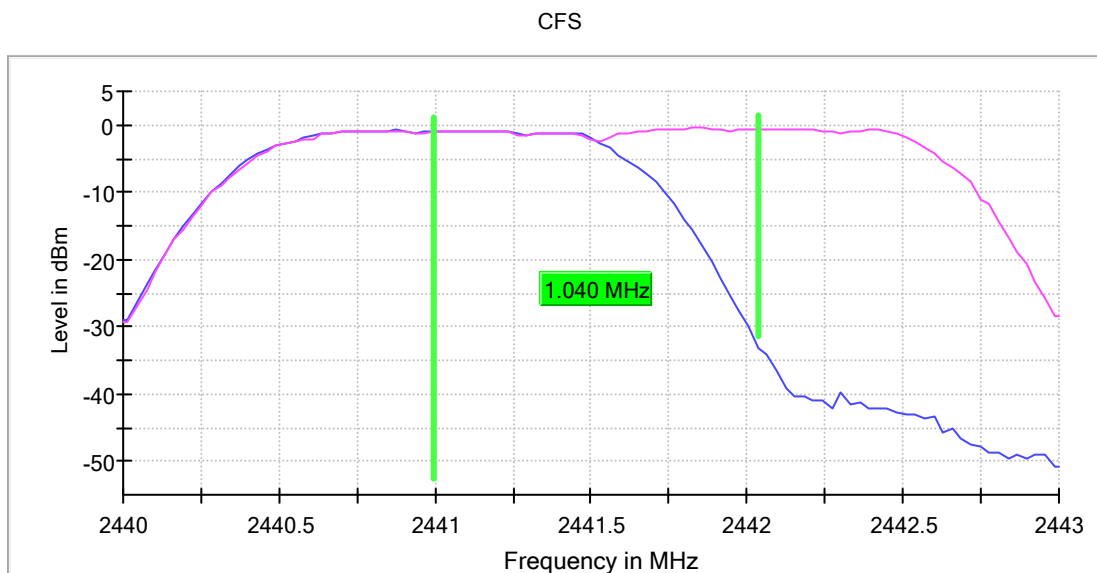
BDR, High Channel
RBW=300KHz, VBW=300KHz



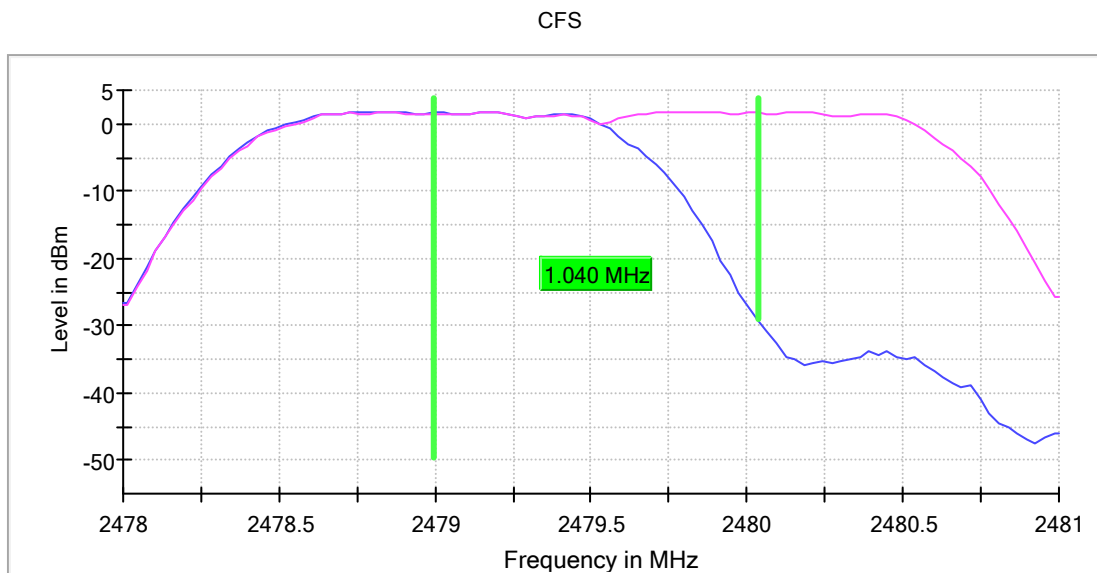
EDR, Low Channel
RBW=300KHz, VBW=300KHz



EDR, Middle Channel
RBW=300KHz, VBW=300KHz

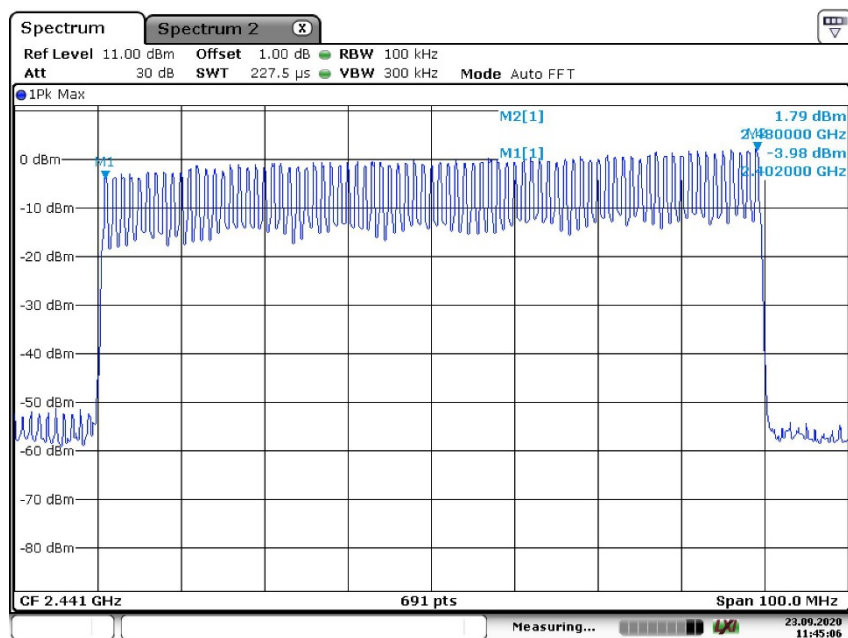


EDR, High Channel
RBW=300KHz, VBW=300KHz



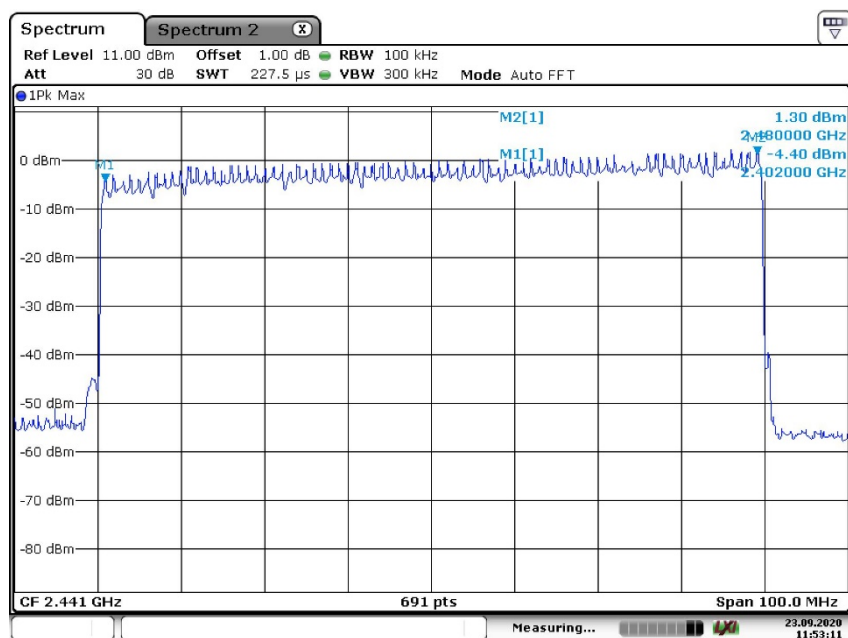
Appendix B.5: Test Plots of Number of Hopping Frequency

BDR, Hopping



Date: 23.SEP.2020 11:45:05

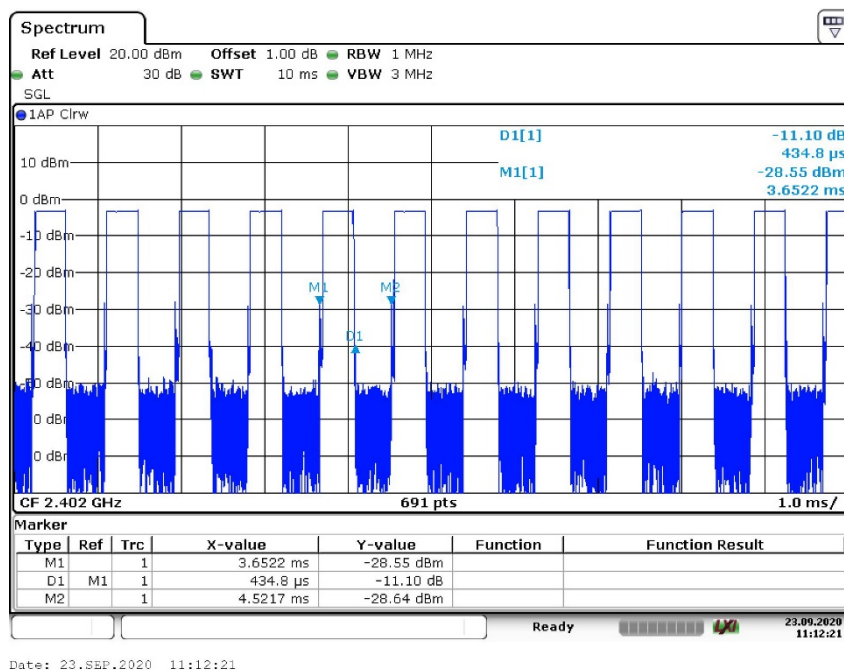
EDR, Hopping



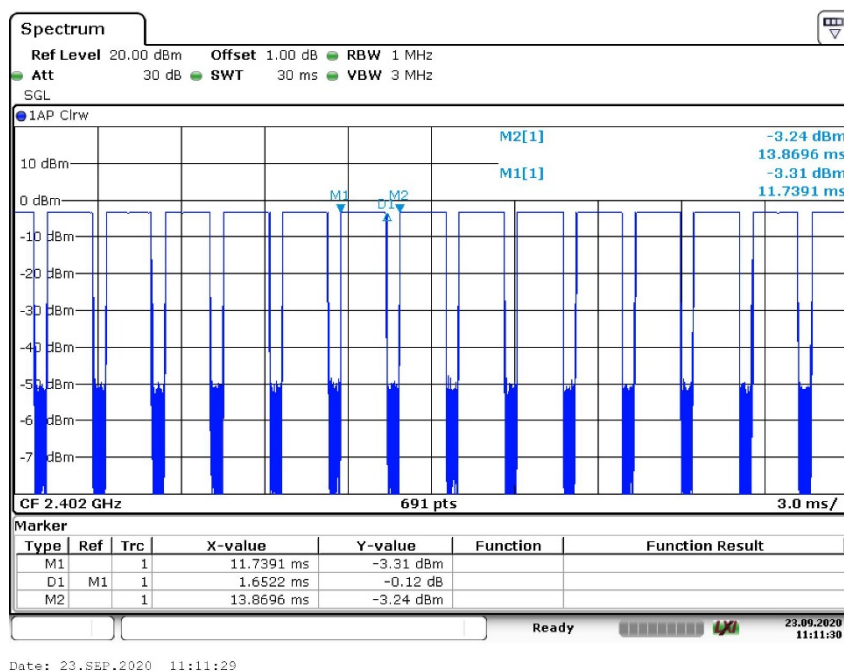
Date: 23.SEP.2020 11:53:10

Appendix B.6: Test Plots of Time of Occupancy

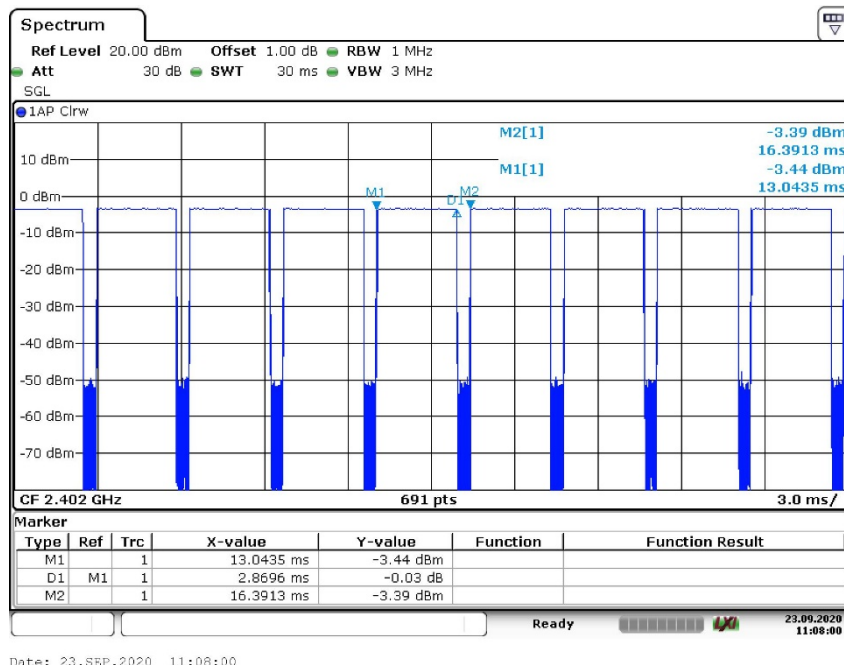
BDR Mode, DH1, Middle Channel



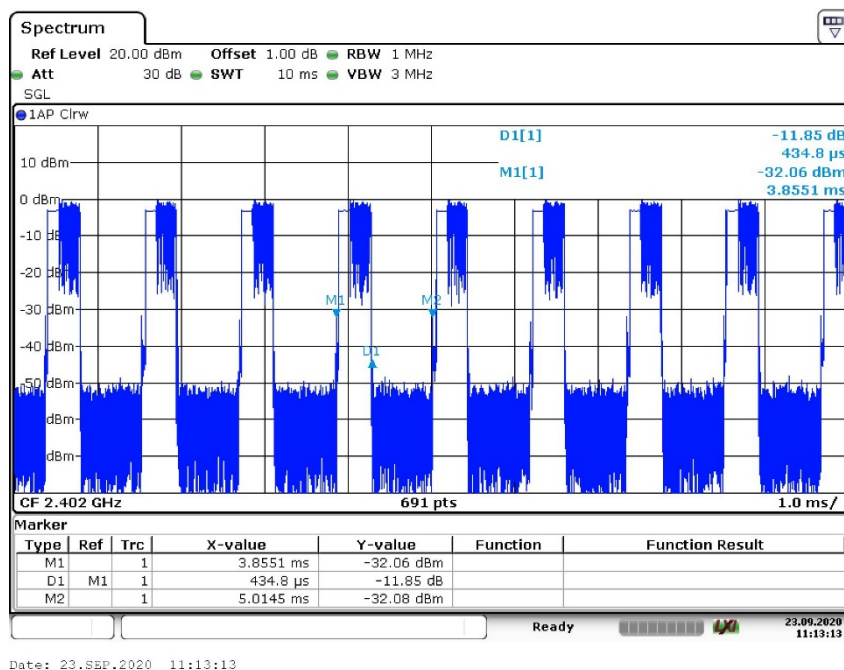
BDR Mode, DH3, Middle Channel



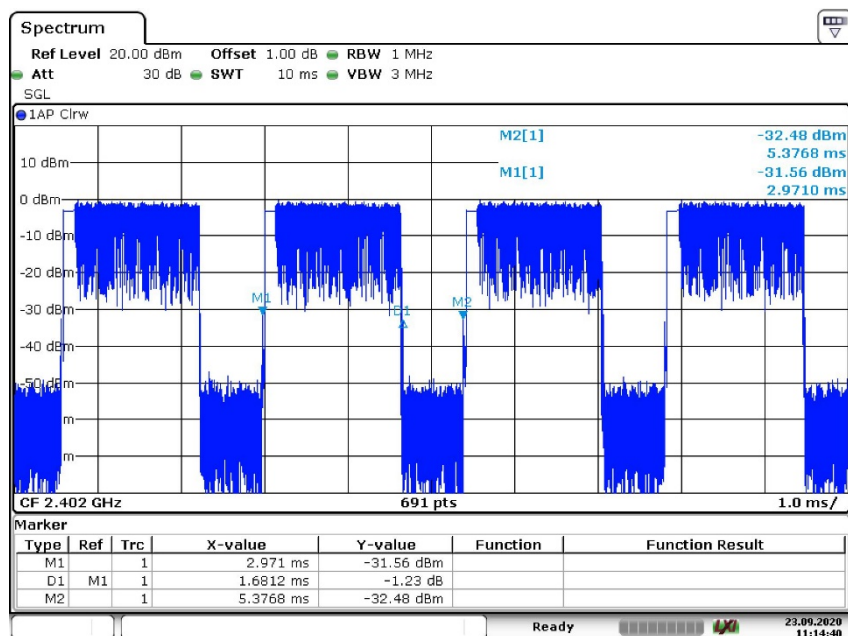
BDR Mode, DH5, Middle Channel



EDR Mode, 3DH1, Middle Channel



EDR Mode, 3DH3, Middle Channel



Date: 23.SEP.2020 11:14:40

EDR Mode, 3DH5, Middle Channel



Date: 23.SEP.2020 11:15:28

Appendix C

Test Results of Radiated Emission & AC Mains Conducted Emission

APPENDIX C	1
APPENDIX C.1: TEST PLOTS OF RADIATED SPURIOUS EMISSION	2
<i>BDR mode, 30MHz - 1GHz</i>	2
<i>BDR mode, 1GHz - 18GHz</i>	6
<i>EDR mode, 1GHz - 18GHz</i>	18
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<i>BDR mode, Low Channel</i>	30
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<i>EDR mode, Low Channel</i>	34
<i>EDR mode, High Channel</i>	36
APPENDIX C.3: TEST PLOTS OF AC MAINS CONDUCTED EMISSION	38

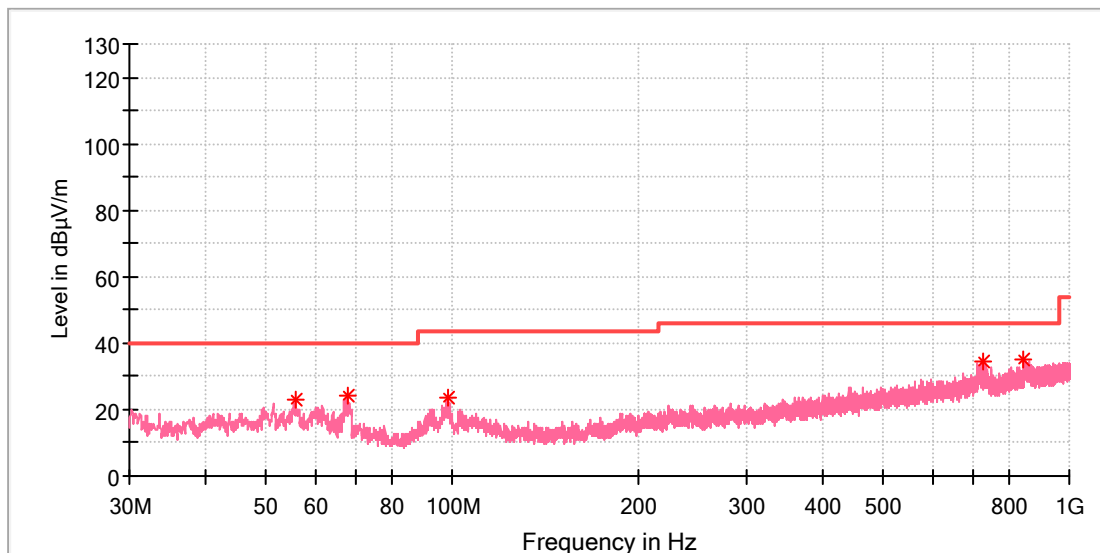
Note: The radiated spurious emission were measured from 9KHz to 26.5GHz, the measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Plots of Radiated Spurious Emission

BDR mode, 30MHz - 1GHz

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_DH5_Low CH
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

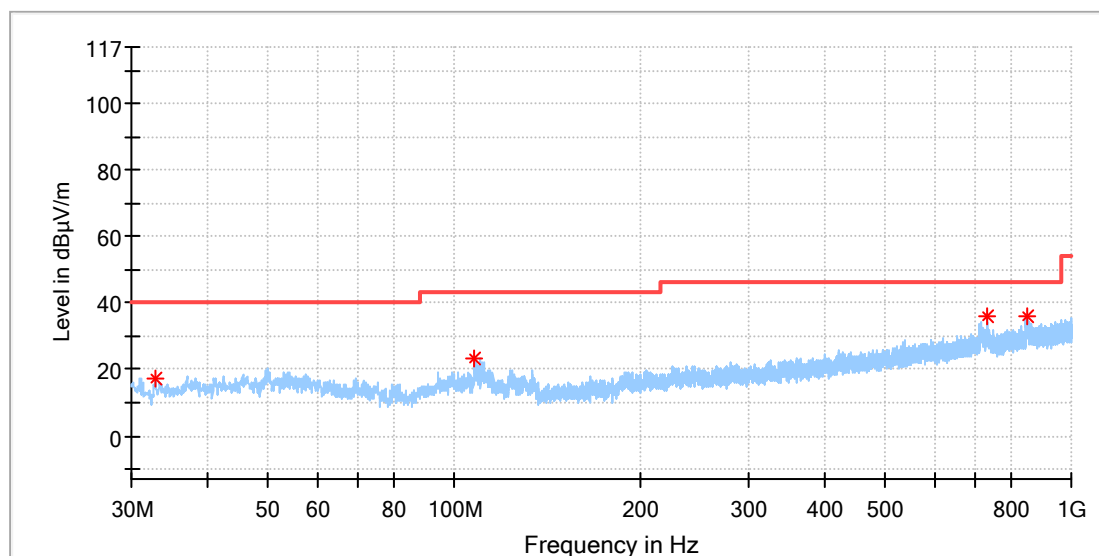


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.899000	22.91	---	40.00	17.09	100.0	V	129.0	-18.8
67.636000	23.94	---	40.00	16.06	100.0	V	335.0	-21.3
98.191000	23.31	---	43.50	20.19	100.0	V	233.0	-19.6
722.774000	34.42	---	46.00	11.58	100.0	V	20.0	-8.0
844.945500	35.36	---	46.00	10.64	100.0	V	51.0	-6.0

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_Low CH
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



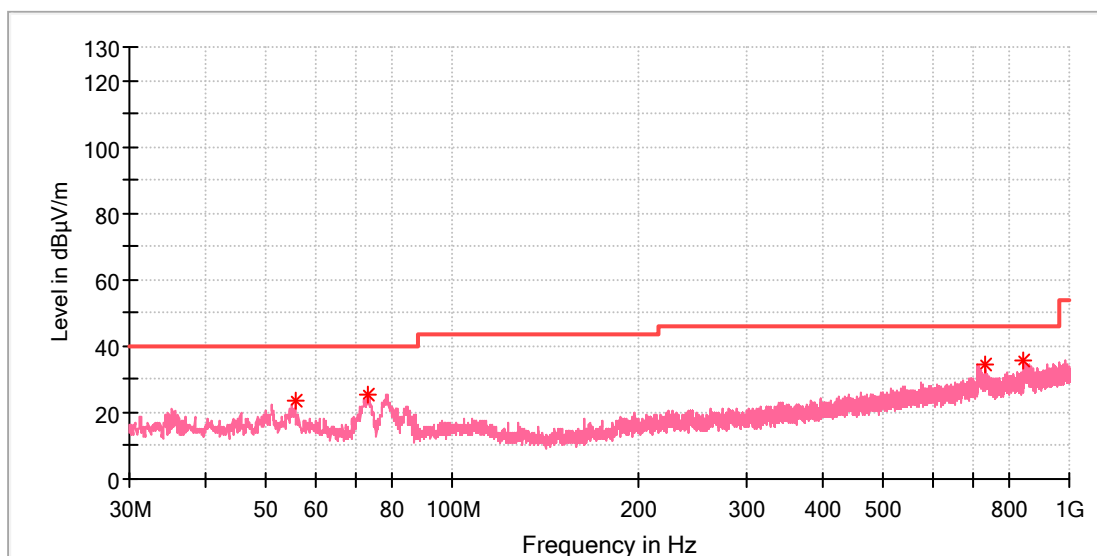
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.813000	17.31	---	40.00	22.69	100.0	H	183.0	-22.8
107.600000	23.26	---	43.50	20.24	100.0	H	81.0	-19.2
729.321500	35.87	---	46.00	10.13	100.0	H	108.0	-7.9
845.236500	35.83	---	46.00	10.17	100.0	H	137.0	-6.0

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EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_DH5_High CH
 Test Voltage:: 120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

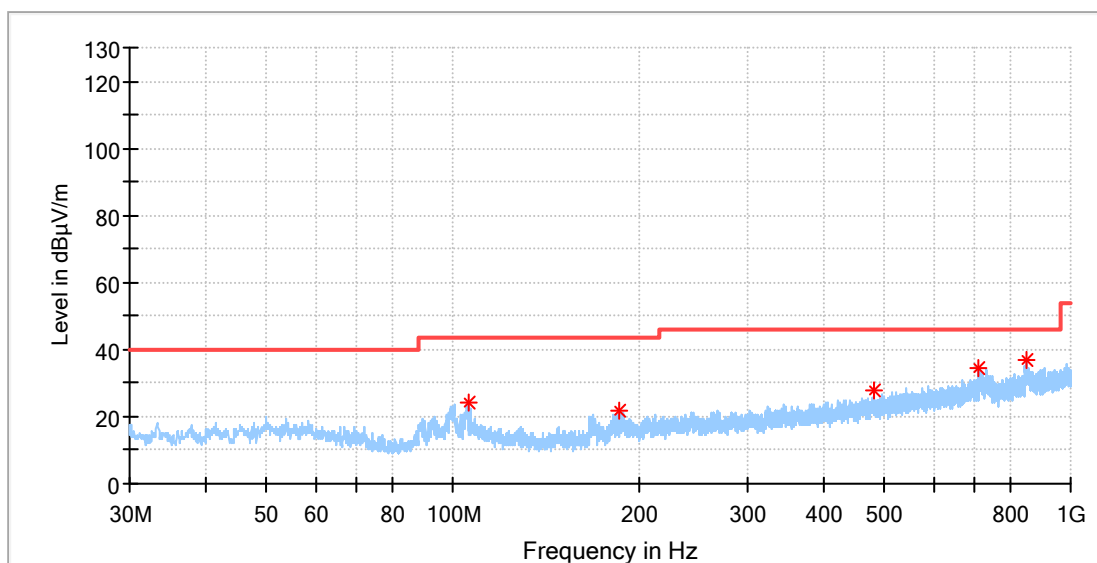


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.705000	23.36	---	40.00	16.64	100.0	V	47.0	-18.8
72.971000	25.14	---	40.00	14.86	100.0	V	189.0	-23.1
728.982000	34.76	---	46.00	11.24	100.0	V	226.0	-7.9
844.800000	35.84	---	46.00	10.16	100.0	V	152.0	-6.0

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_High CH
Test Voltage:: 120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



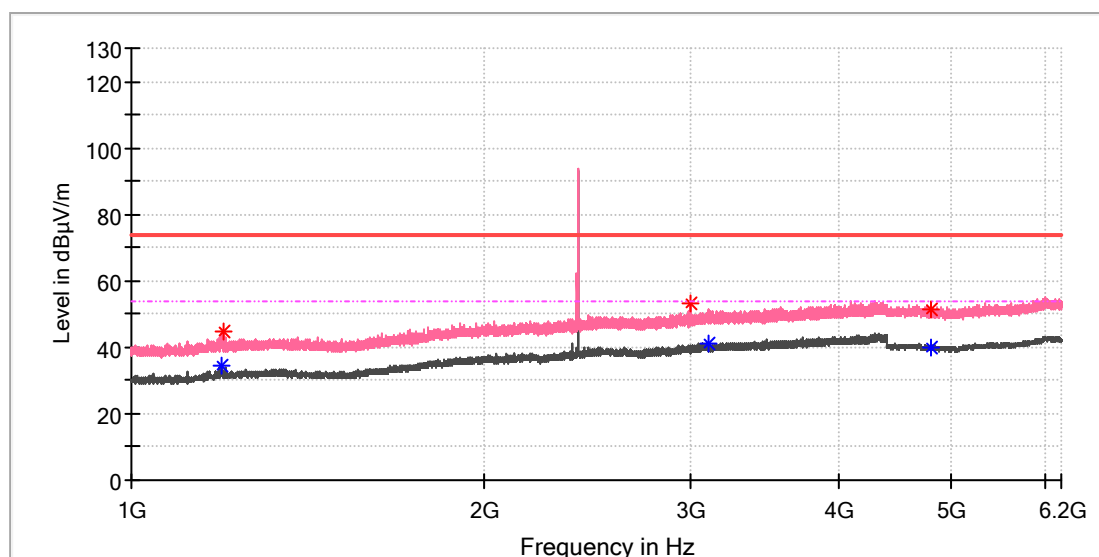
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
105.805500	24.27	---	43.50	19.23	100.0	H	86.0	-19.1
185.879000	22.01	---	43.50	21.49	100.0	H	77.0	-20.3
480.031500	27.89	---	46.00	18.11	100.0	H	204.0	-12.6
711.085500	34.35	---	46.00	11.65	100.0	H	0.0	-8.2
850.232000	36.64	---	46.00	9.36	100.0	H	0.0	-5.9

BDR mode, 1GHz - 18GHz

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_DH5_Low CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

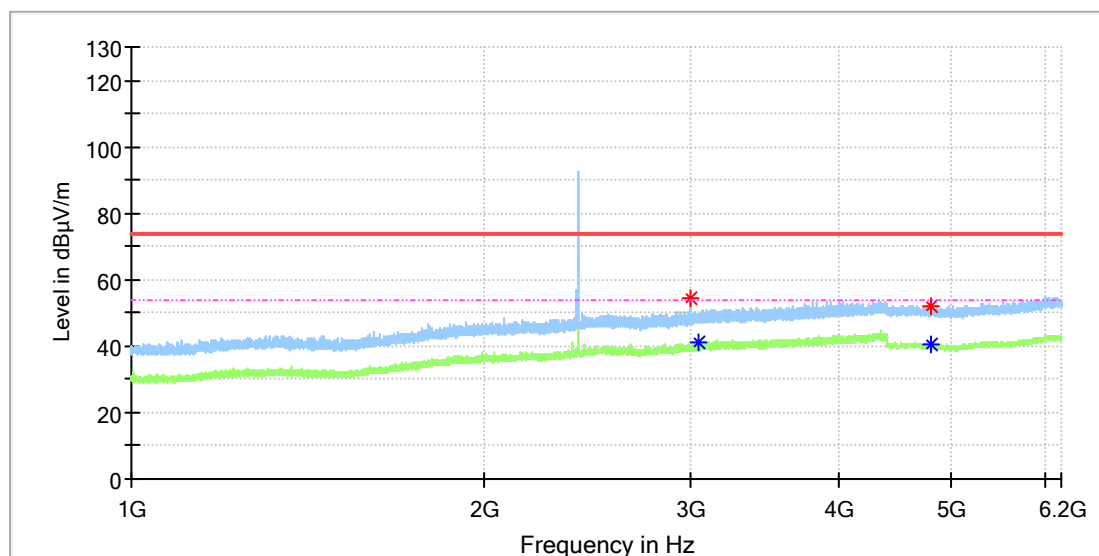


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.712500	---	34.29	54.00	19.71	100.0	V	252.0	1.1
1197.412500	44.72	---	74.00	29.28	100.0	V	306.0	1.1
2993.462500	53.38	---	74.00	20.62	100.0	V	36.0	8.5
3097.800000	---	41.36	54.00	12.64	100.0	V	16.0	8.7
4803.500000	51.26	---	74.00	22.74	100.0	V	157.0	13.6
4804.000000	---	40.16	54.00	13.84	100.0	V	112.0	13.6

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_Low CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

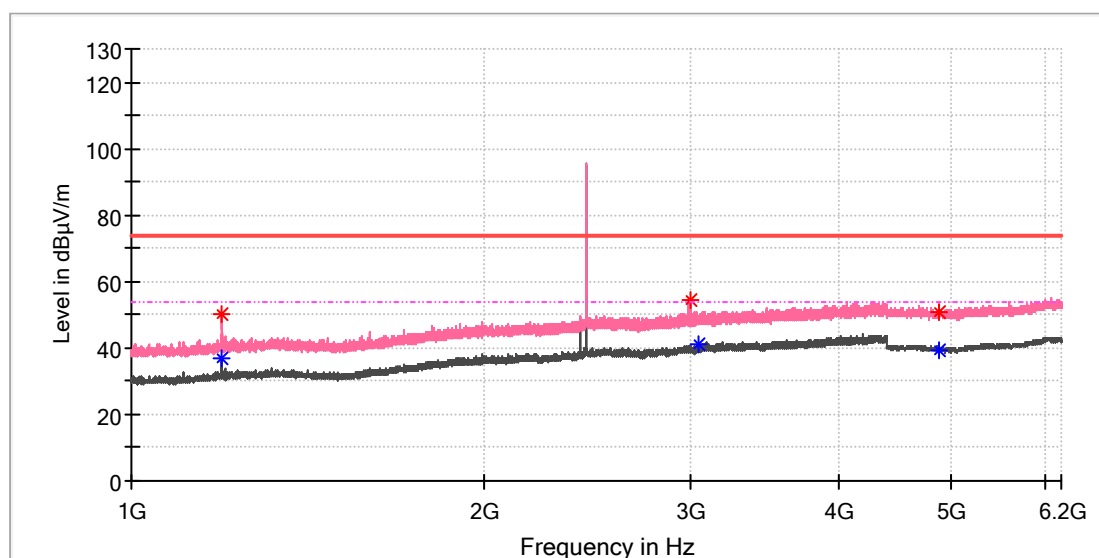


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2992.187500	54.30	---	74.00	19.70	100.0	H	256.0	8.5
3040.637500	---	41.15	54.00	12.85	100.0	H	59.0	8.6
4804.000000	---	40.41	54.00	13.59	100.0	H	180.0	13.6
4810.500000	51.91	---	74.00	22.09	100.0	H	274.0	13.6

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_Mid CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

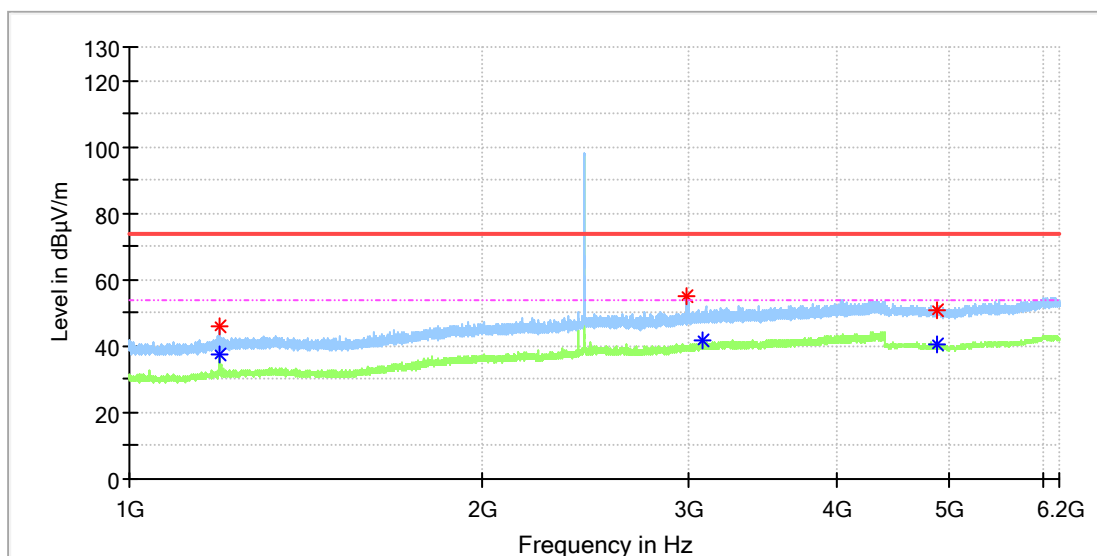


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.500000	50.16	---	74.00	23.84	100.0	V	311.0	1.1
1195.500000	---	36.97	54.00	17.03	100.0	V	311.0	1.1
2990.700000	54.67	---	74.00	19.33	100.0	V	270.0	8.5
3038.725000	---	41.05	54.00	12.95	100.0	V	21.0	8.6
4882.500000	50.71	---	74.00	23.29	100.0	V	351.0	13.4
4886.500000	---	39.54	54.00	14.46	100.0	V	91.0	13.3

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_Mid CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

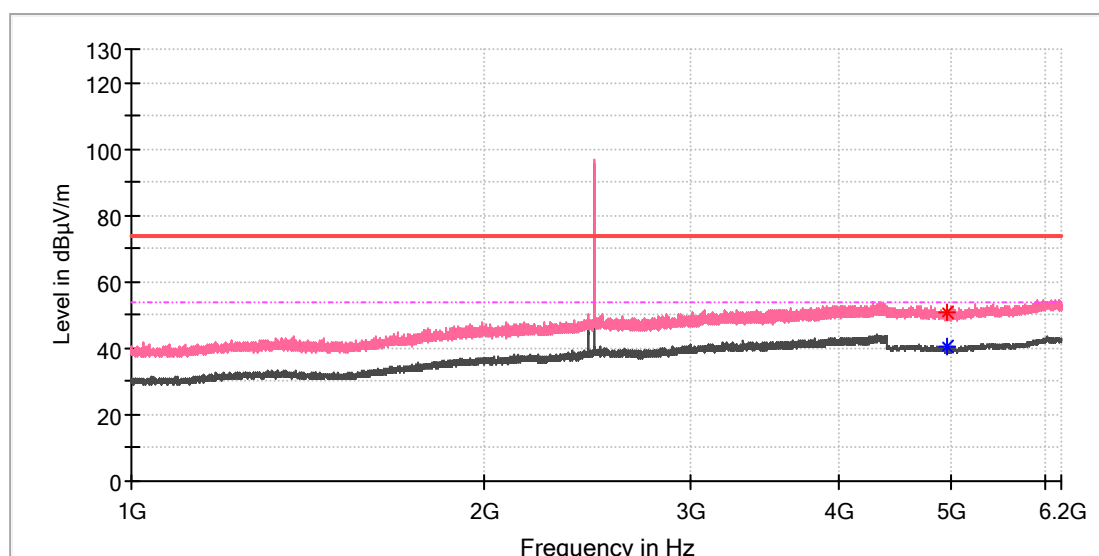


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.287500	45.86	---	74.00	28.14	100.0	H	209.0	1.1
1195.287500	---	37.53	54.00	16.47	100.0	H	209.0	1.1
2988.150000	55.01	---	74.00	18.99	100.0	H	240.0	8.5
3074.850000	---	41.68	54.00	12.32	100.0	H	10.0	8.6
4882.000000	---	40.33	54.00	13.67	100.0	H	359.0	13.4
4886.000000	50.86	---	74.00	23.14	100.0	H	295.0	13.3

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_DH5_High CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

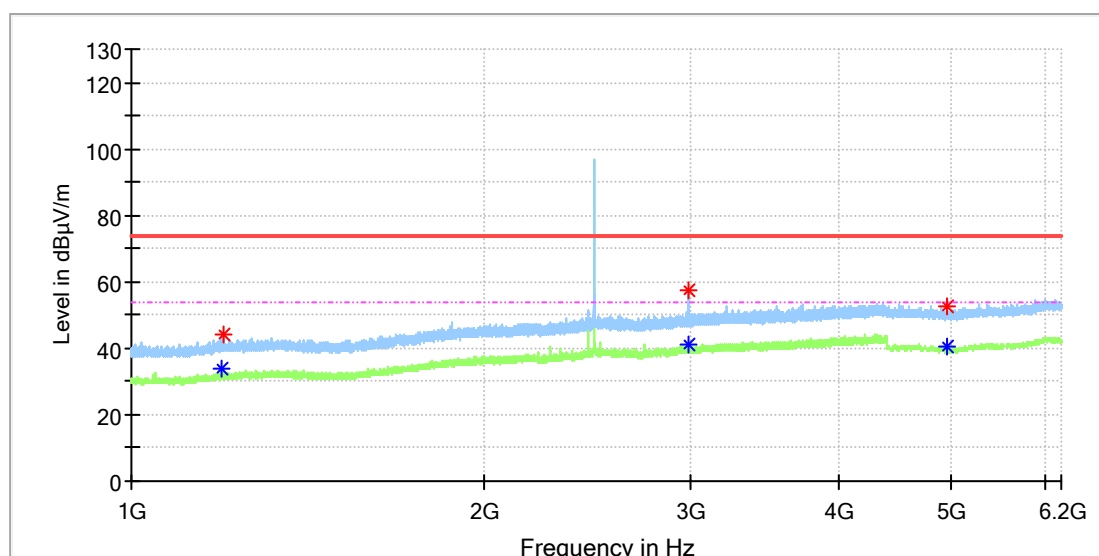


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	40.69	54.00	13.31	100.0	V	345.0	13.2
4963.500000	50.97	---	74.00	23.03	100.0	V	67.0	13.2

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

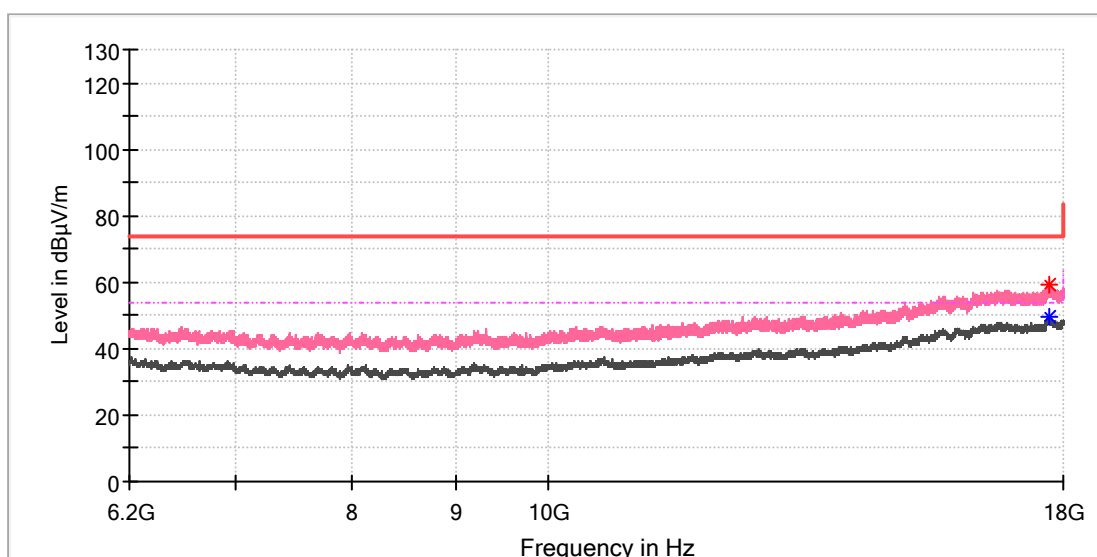


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.287500	---	33.91	54.00	20.09	100.0	H	275.0	1.1
1200.387500	44.11	---	74.00	29.89	100.0	H	285.0	1.1
2986.662500	---	40.88	54.00	13.12	100.0	H	218.0	8.5
2986.662500	57.62	---	74.00	16.38	100.0	H	218.0	8.5
4960.000000	---	40.69	54.00	13.31	100.0	H	331.0	13.2
4964.000000	52.58	---	74.00	21.42	100.0	H	345.0	13.2

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_DH5_Low CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



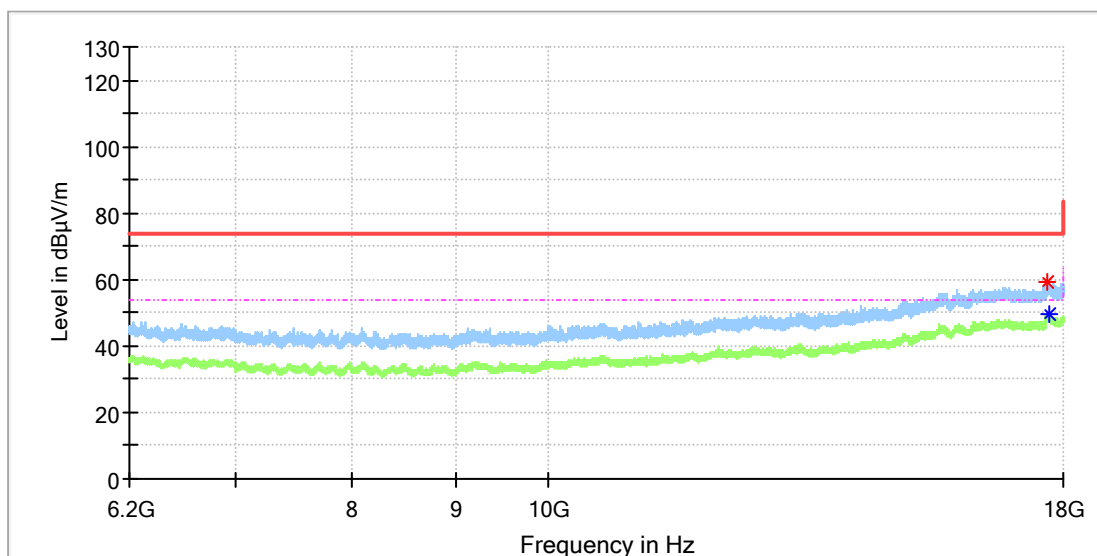
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17695.166667	59.14	---	74.00	14.86	100.0	V	80.0	22.9
17702.541667	---	49.45	54.00	4.55	100.0	V	195.0	22.9

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EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_DH5_Low CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

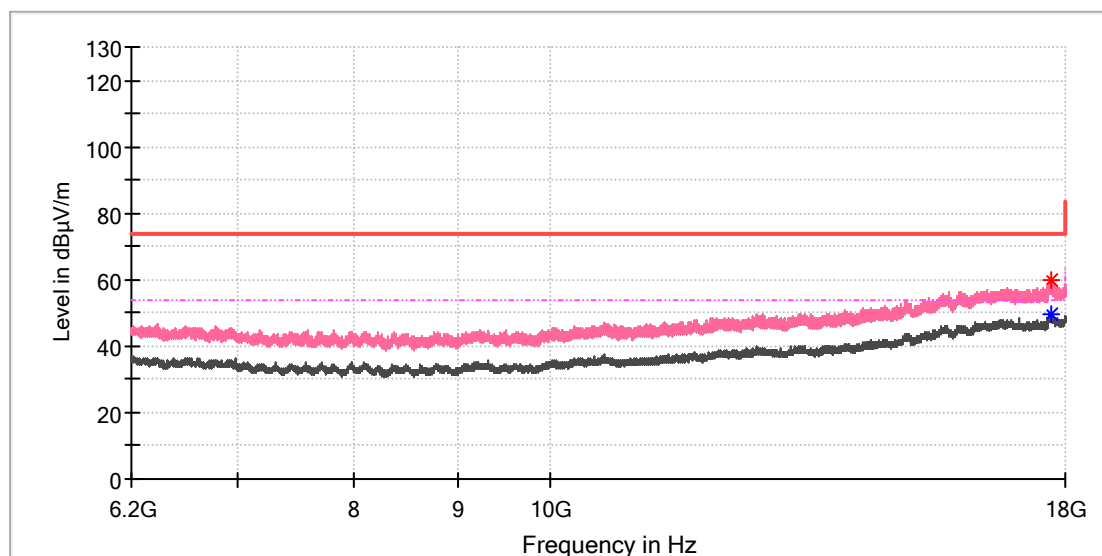


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17673.041667	59.39	---	74.00	14.61	100.0	H	196.0	22.9
17705.491667	---	49.60	54.00	4.40	100.0	H	119.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_Mid CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

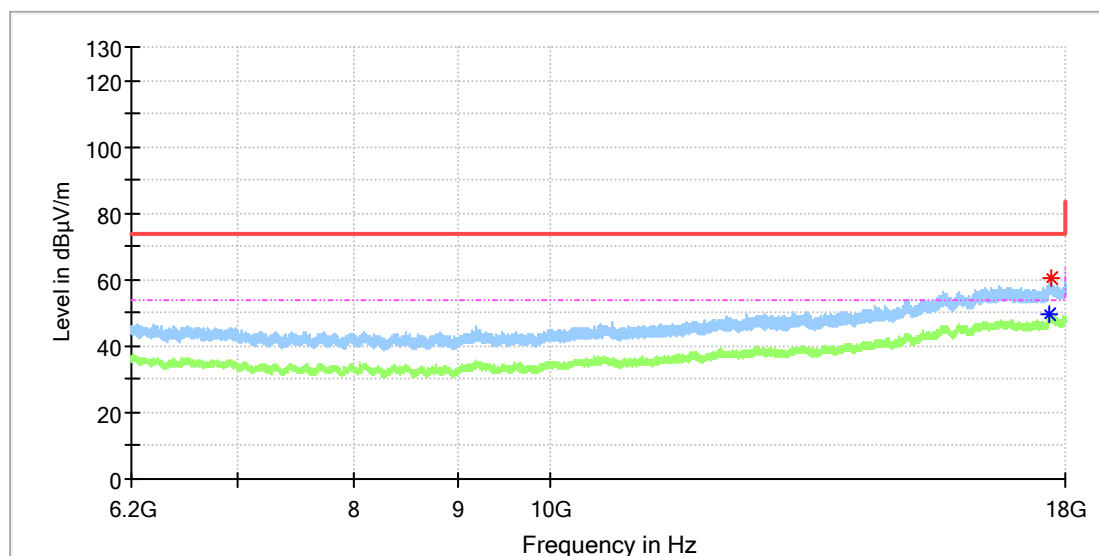


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17701.558333	---	49.60	54.00	4.40	100.0	V	49.0	22.9
17722.208333	59.86	---	74.00	14.14	100.0	V	0.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_Mid CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

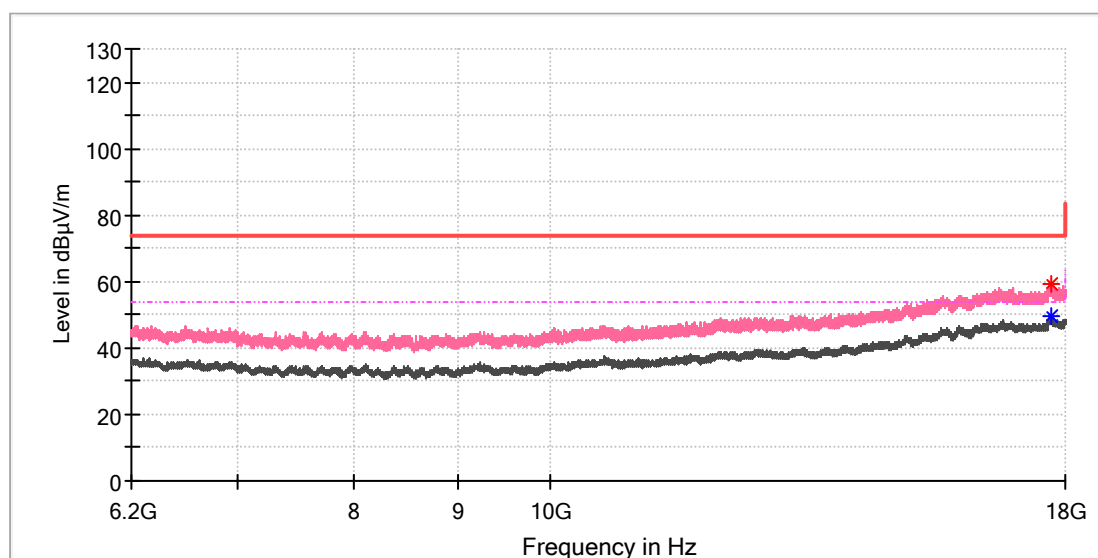


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17681.891667	---	49.36	54.00	4.64	100.0	H	286.0	22.9
17726.633333	60.31	---	74.00	13.69	100.0	H	140.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

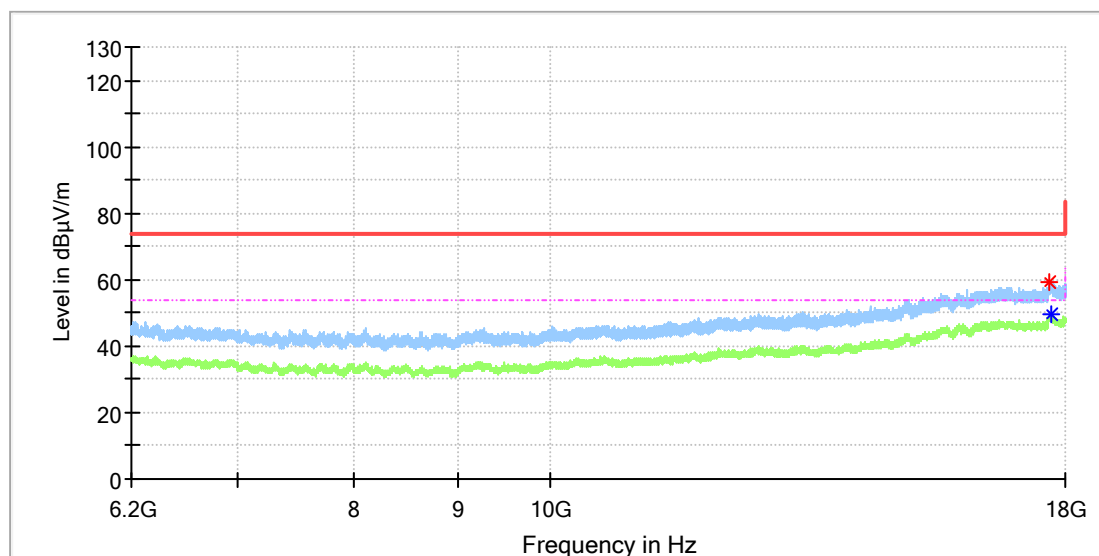


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17696.641667	59.06	---	74.00	14.94	100.0	V	0.0	22.9
17702.541667	---	49.75	54.00	4.25	100.0	V	1.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



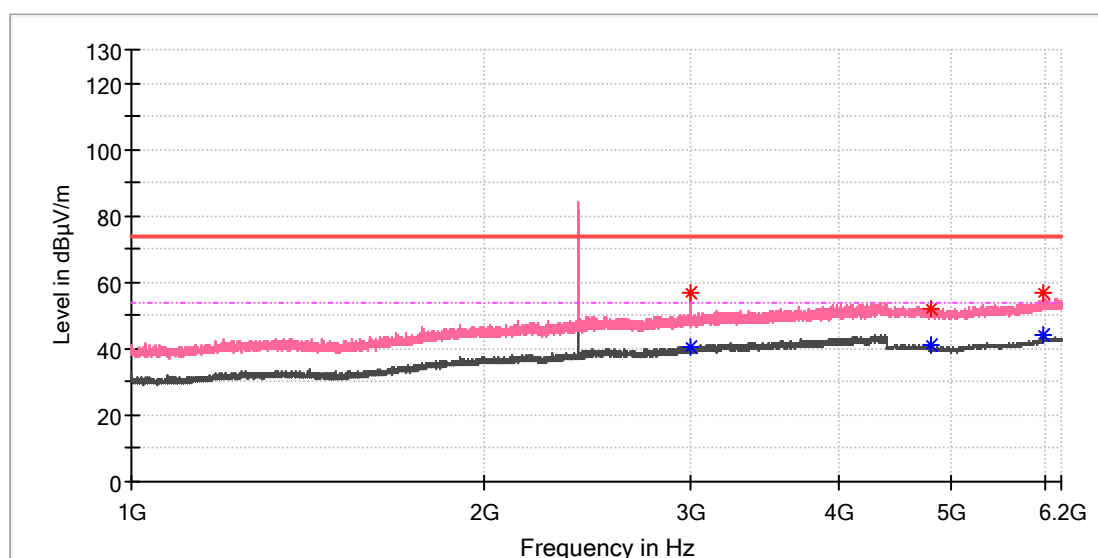
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17684.350000	58.99	---	74.00	15.01	100.0	H	289.0	22.9
17696.641667	---	49.30	54.00	4.70	100.0	H	145.0	22.9

EDR mode, 1GHz - 18GHz

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_3DH5_Low CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

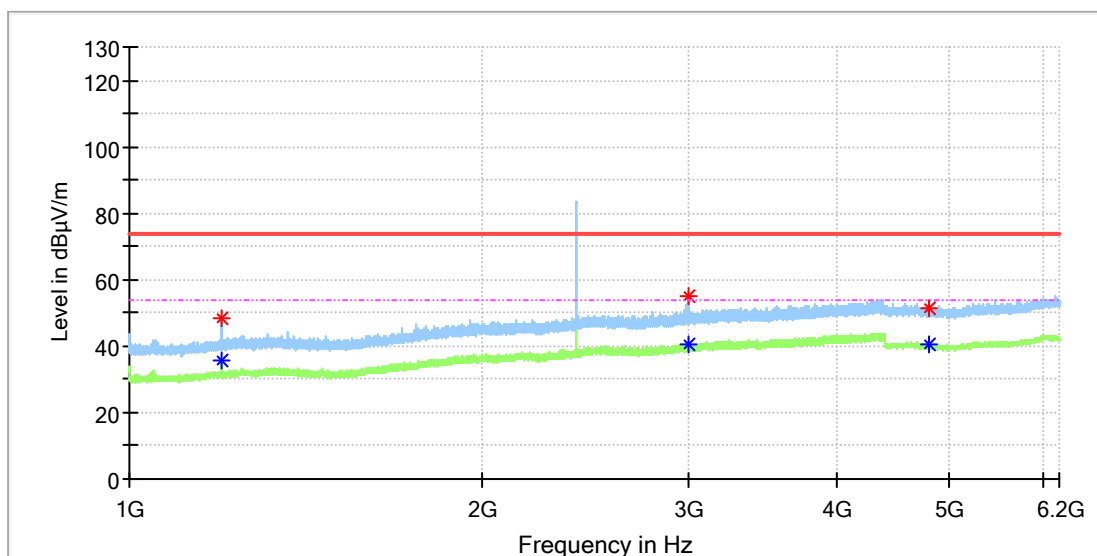


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2995.375000	---	40.48	54.00	13.52	100.0	V	267.0	8.5
2998.562500	56.78	---	74.00	17.22	100.0	V	332.0	8.5
4800.000000	51.99	---	74.00	22.01	100.0	V	271.0	13.6
4811.000000	---	40.92	54.00	13.08	100.0	V	217.0	13.6
5990.000000	---	44.26	54.00	9.75	100.0	V	0.0	15.7
5990.500000	56.96	---	74.00	17.04	100.0	V	0.0	15.7

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_3DH5_Low CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

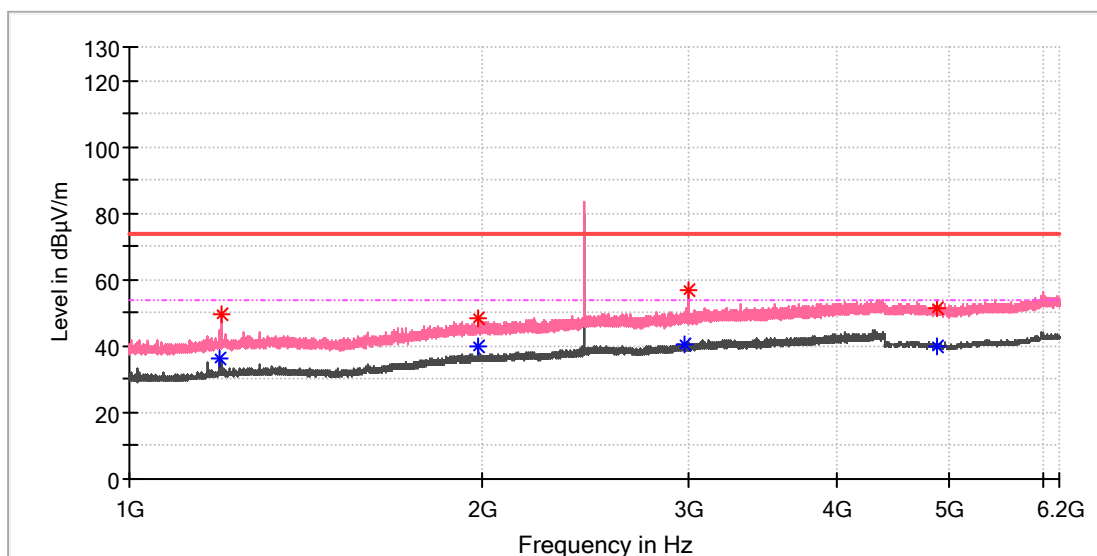


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.112500	48.09	---	74.00	25.91	100.0	H	229.0	1.1
1199.112500	---	35.50	54.00	18.50	100.0	H	229.0	1.1
2994.950000	54.93	---	74.00	19.07	100.0	H	301.0	8.5
2998.775000	---	40.42	54.00	13.58	100.0	H	2.0	8.5
4800.500000	---	40.37	54.00	13.63	100.0	H	332.0	13.6
4804.000000	51.67	---	74.00	22.33	100.0	H	318.0	13.6

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_3DH5_Mid CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

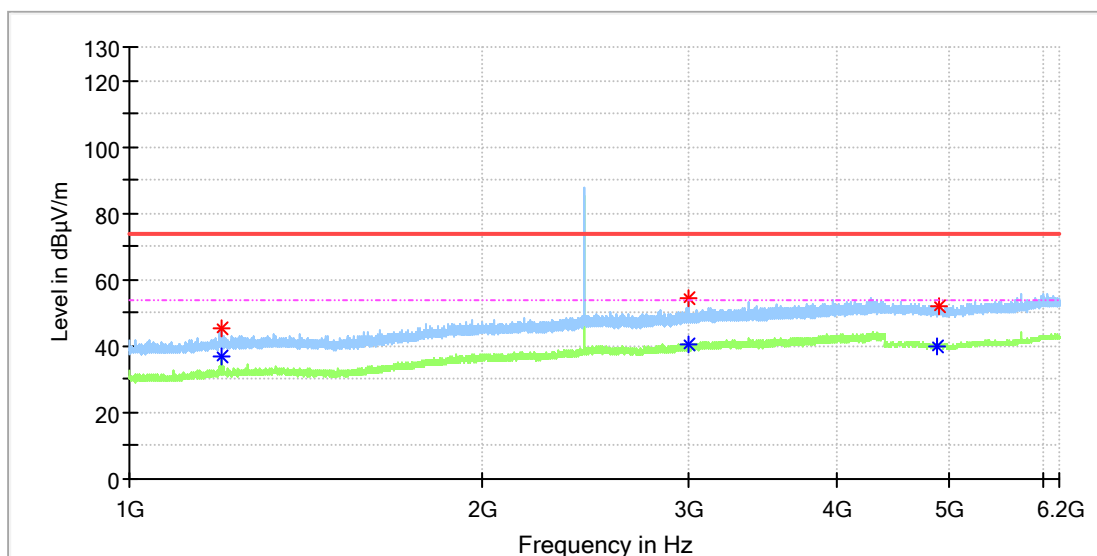


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1192.950000	---	36.44	54.00	17.56	100.0	V	310.0	1.1
1199.325000	49.60	---	74.00	24.40	100.0	V	257.0	1.1
1985.787500	48.63	---	74.00	25.37	100.0	V	288.0	5.9
1985.787500	---	39.77	54.00	14.23	100.0	V	288.0	5.9
2971.787500	---	40.74	54.00	13.26	100.0	V	33.0	8.4
2991.550000	56.80	---	74.00	17.20	100.0	V	331.0	8.5
4883.000000	---	39.65	54.00	14.35	100.0	V	256.0	13.4
4884.500000	51.24	---	74.00	22.76	100.0	V	299.0	13.4

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_3DH5_Mid CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

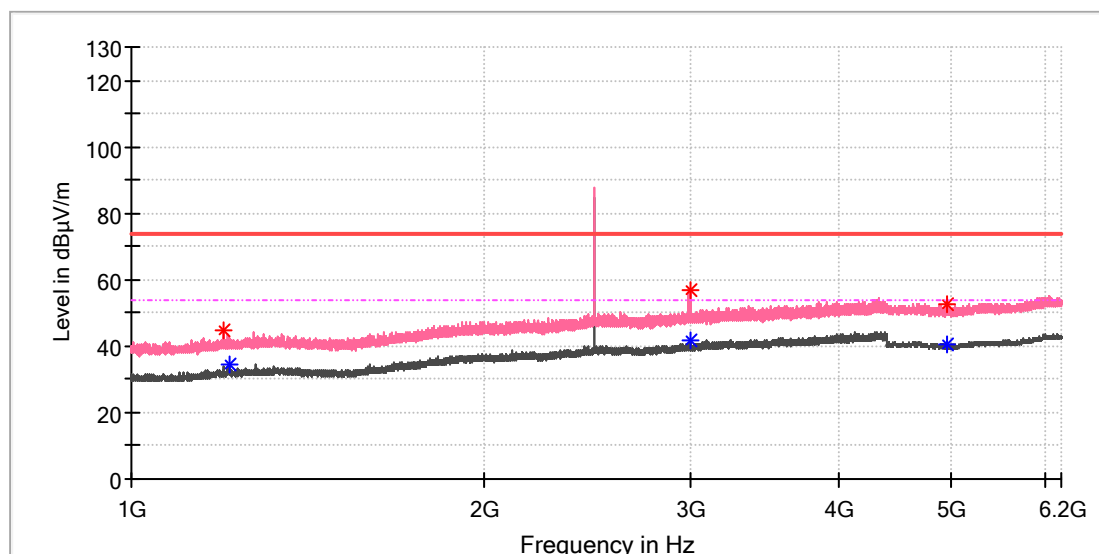


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.412500	45.29	---	74.00	28.71	100.0	H	220.0	1.1
1197.412500	---	36.97	54.00	17.03	100.0	H	220.0	1.1
2991.337500	---	40.69	54.00	13.31	100.0	H	160.0	8.5
2998.987500	54.61	---	74.00	19.39	100.0	H	179.0	8.5
4886.000000	---	40.10	54.00	13.90	100.0	H	215.0	13.3
4888.000000	52.05	---	74.00	21.95	100.0	H	263.0	13.3

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

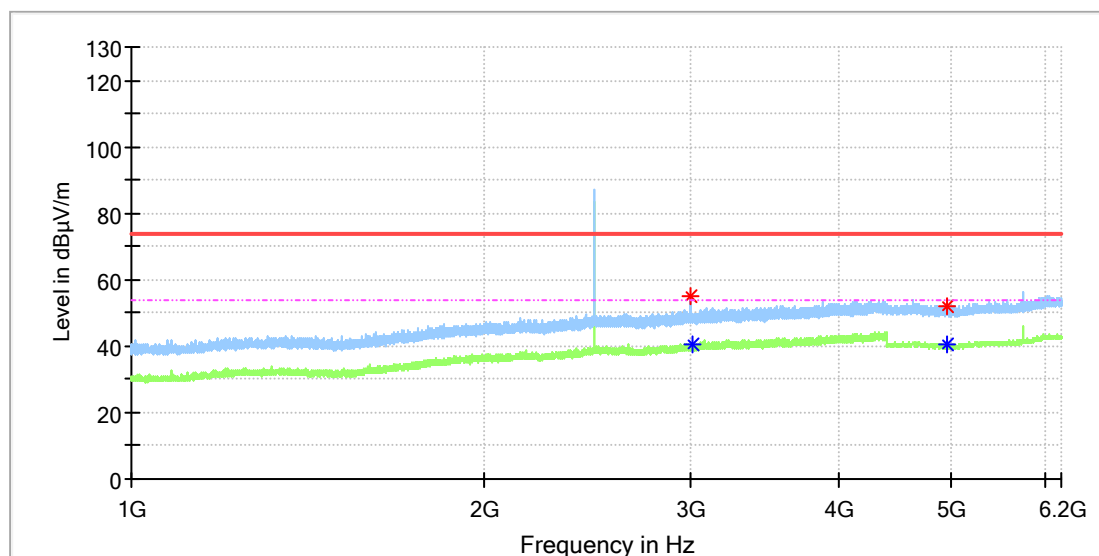


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1197.200000	44.97	---	74.00	29.03	100.0	V	237.0	1.1
1210.587500	---	34.55	54.00	19.45	100.0	V	322.0	1.3
2998.137500	---	41.52	54.00	12.48	100.0	V	300.0	8.5
2998.137500	57.08	---	74.00	16.92	100.0	V	300.0	8.5
4951.500000	52.43	---	74.00	21.57	100.0	V	313.0	13.2
4955.500000	---	40.63	54.00	13.37	100.0	V	306.0	13.2

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

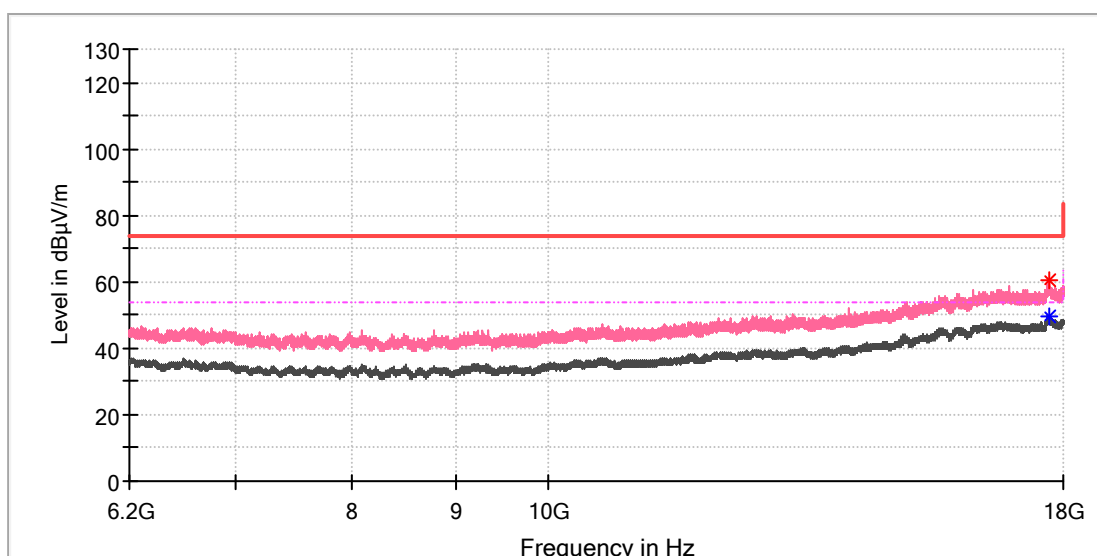


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2999.200000	55.11	---	74.00	18.89	100.0	H	210.0	8.5
3003.450000	---	40.62	54.00	13.38	100.0	H	306.0	8.5
4948.500000	52.27	---	74.00	21.73	100.0	H	147.0	13.2
4952.500000	---	40.62	54.00	13.38	100.0	H	293.0	13.2

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_3DH5_Low CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

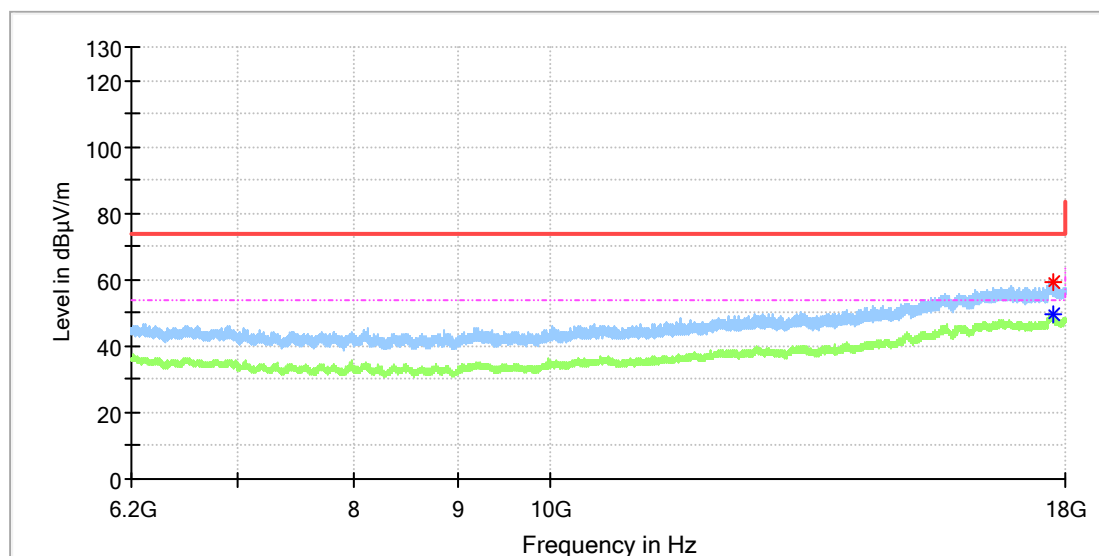


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17703.033333	---	49.78	54.00	4.22	100.0	V	310.0	22.9
17707.950000	60.45	---	74.00	13.55	100.0	V	181.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_Low CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

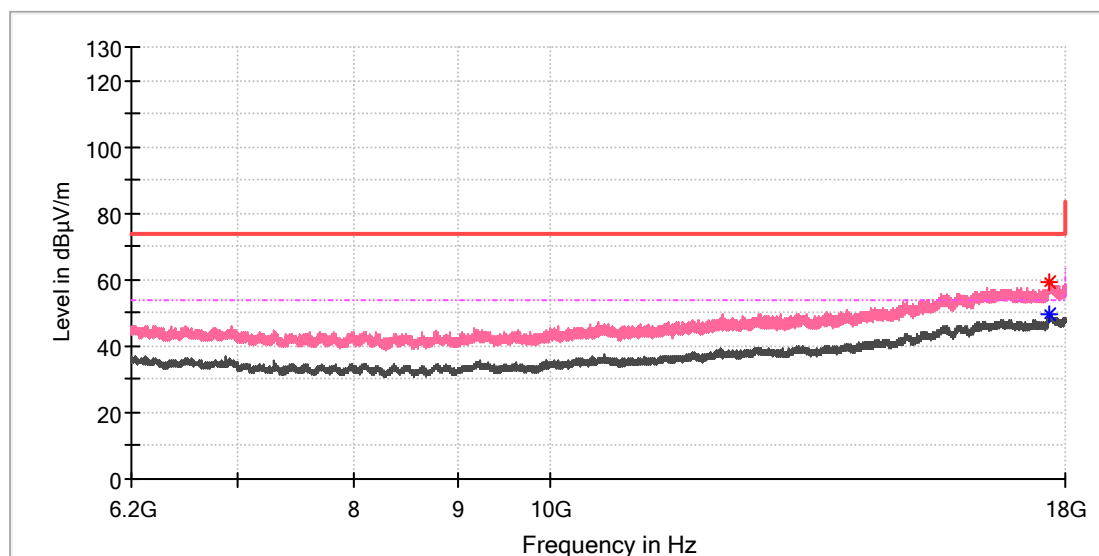


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17735.483333	---	49.47	54.00	4.53	100.0	H	236.0	22.9
17737.941667	59.21	---	74.00	14.79	100.0	H	6.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_Mid CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

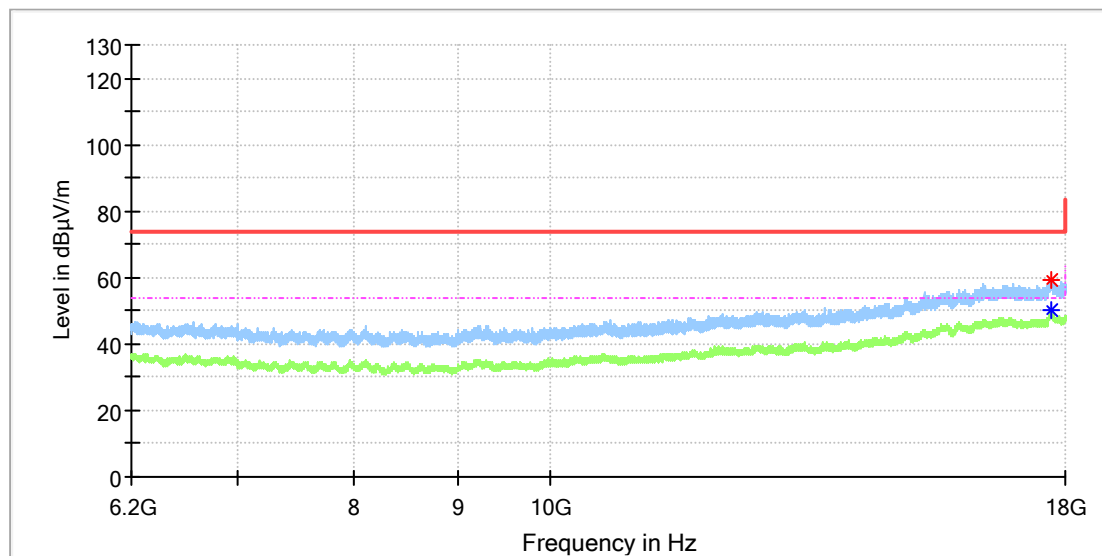


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17663.700000	---	49.42	54.00	4.58	100.0	V	121.0	22.8
17693.691667	59.30	---	74.00	14.70	100.0	V	0.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_Mid CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

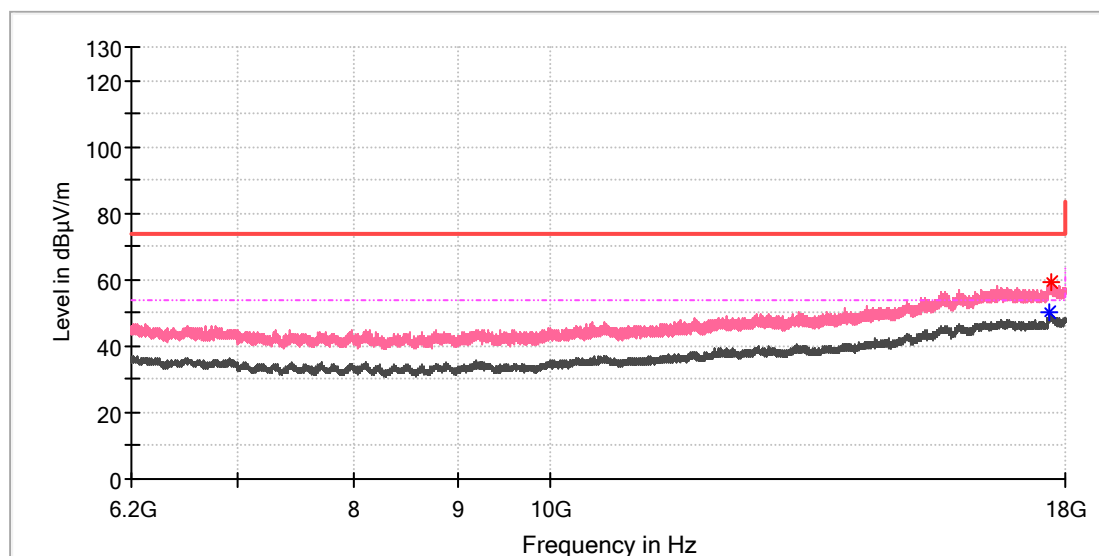


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17707.458333	---	49.96	54.00	4.04	100.0	H	38.0	22.9
17732.533333	59.29	---	74.00	14.71	100.0	H	66.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

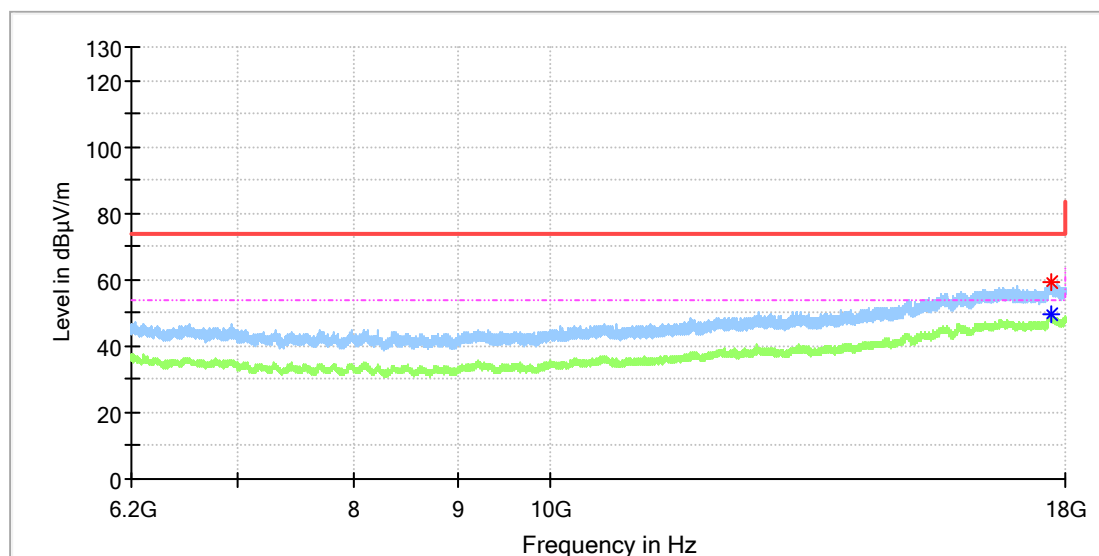


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17687.300000	---	49.90	54.00	4.10	100.0	V	110.0	22.9
17694.183333	59.36	---	74.00	14.64	100.0	V	97.0	22.9

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

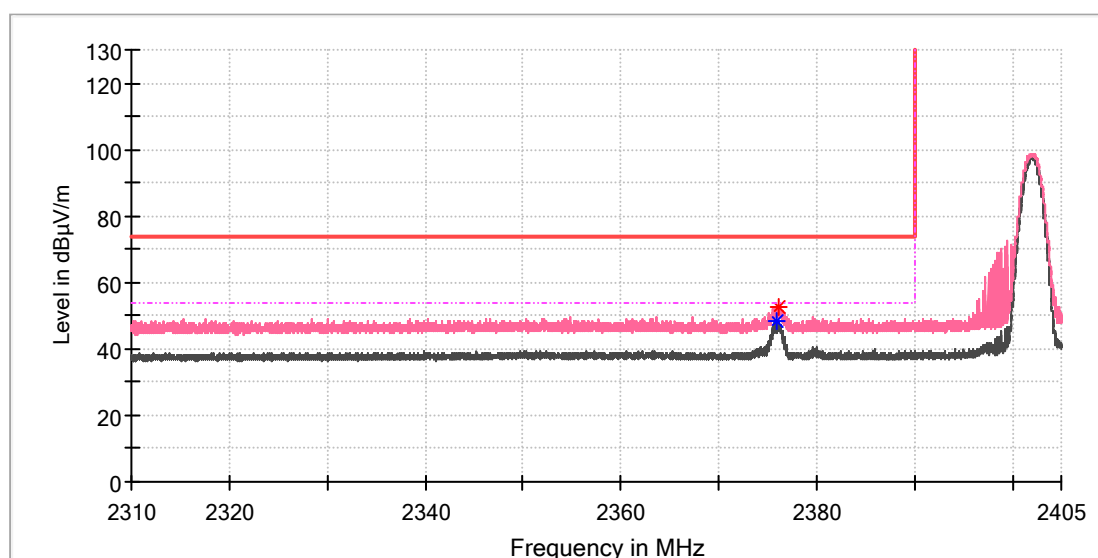
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17696.150000	59.38	---	74.00	14.62	100.0	H	299.0	22.9
17697.133333	---	49.51	54.00	4.49	100.0	H	6.0	22.9

Appendix C.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_DH5_Low CH
Test Voltage::	230V/50Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

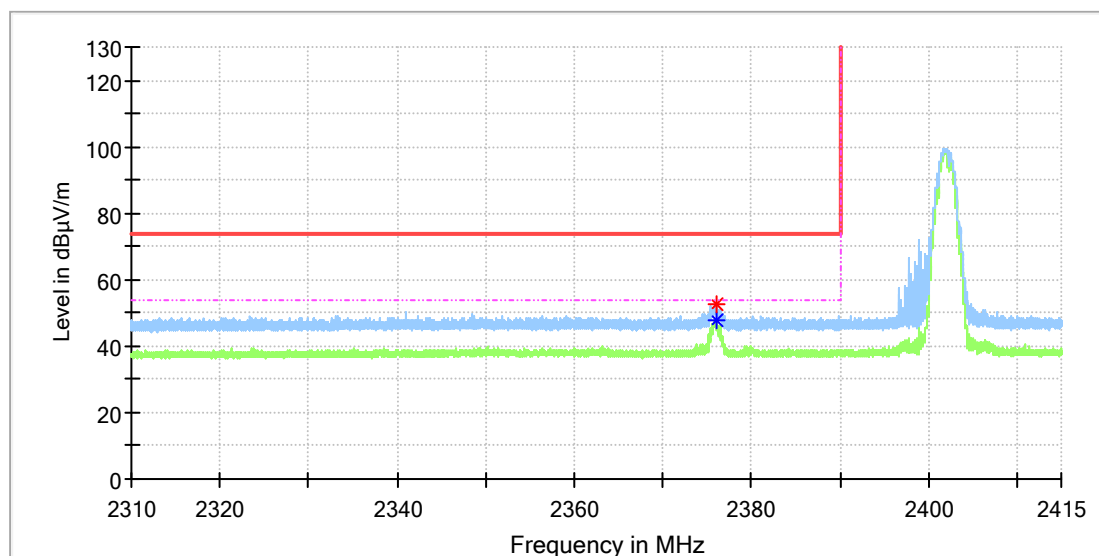


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.887500	---	48.34	54.00	5.66	100.0	V	248.0	6.9
2376.136875	52.49	---	74.00	21.51	100.0	V	248.0	6.9

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_DH5_Low CH
Test Voltage::	230V/50Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



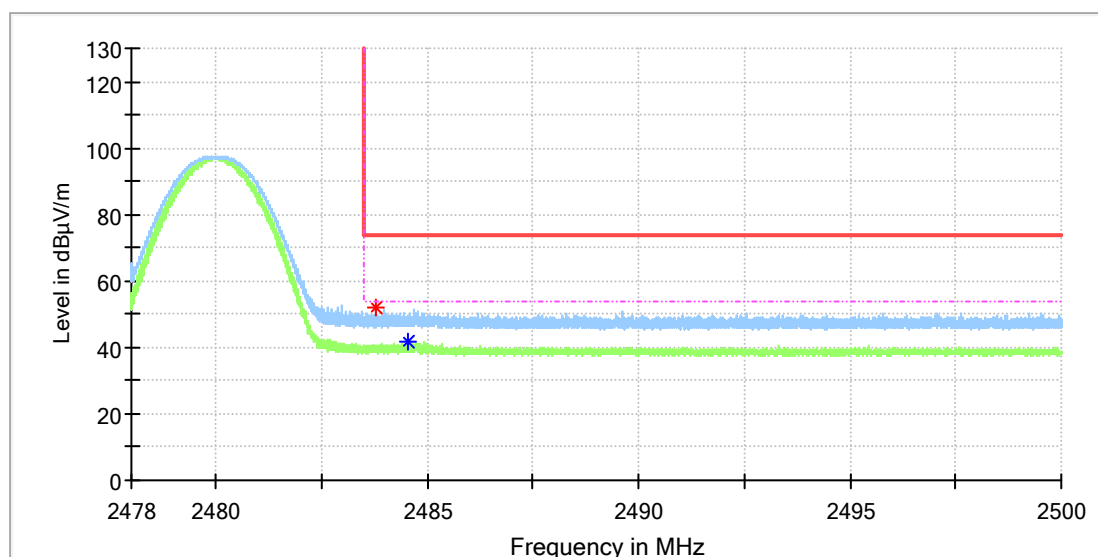
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2376.071250	52.55	---	74.00	21.45	100.0	H	151.0	6.9
2376.077813	---	47.83	54.00	6.17	100.0	H	151.0	6.9

BDR mode, High Channel

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_DH5_High CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

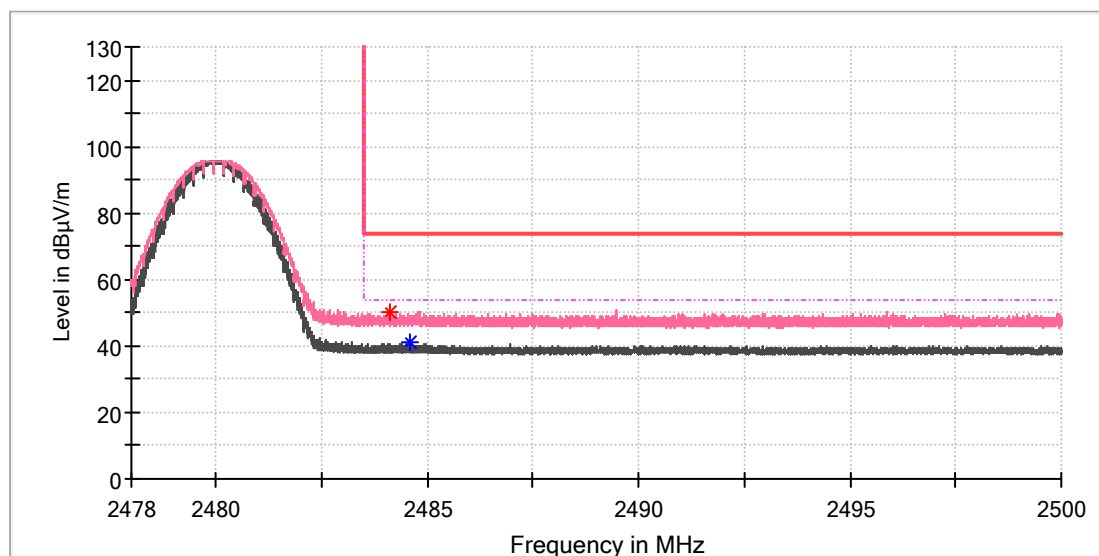


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.766750	51.77	---	74.00	22.23	100.0	H	319.0	7.4
2484.547750	---	41.60	54.00	12.40	100.0	H	350.0	7.4

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
 Model: NS-HTSB22
 Test Mode: TX_BT_DH5_High CH
 Test Voltage:: AC120V/60Hz
 Remark: Temp 23 Humi:55%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



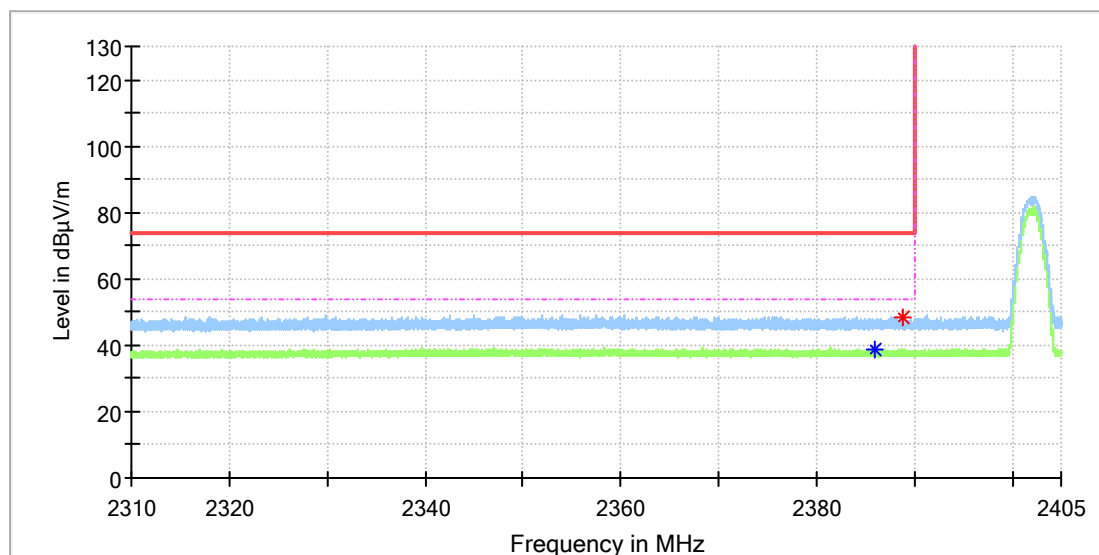
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.100875	50.11	---	74.00	23.89	100.0	V	236.0	7.4
2484.575250	---	41.09	54.00	12.91	100.0	V	248.0	7.4

EDR mode, Low Channel

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_3DH5_Low CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

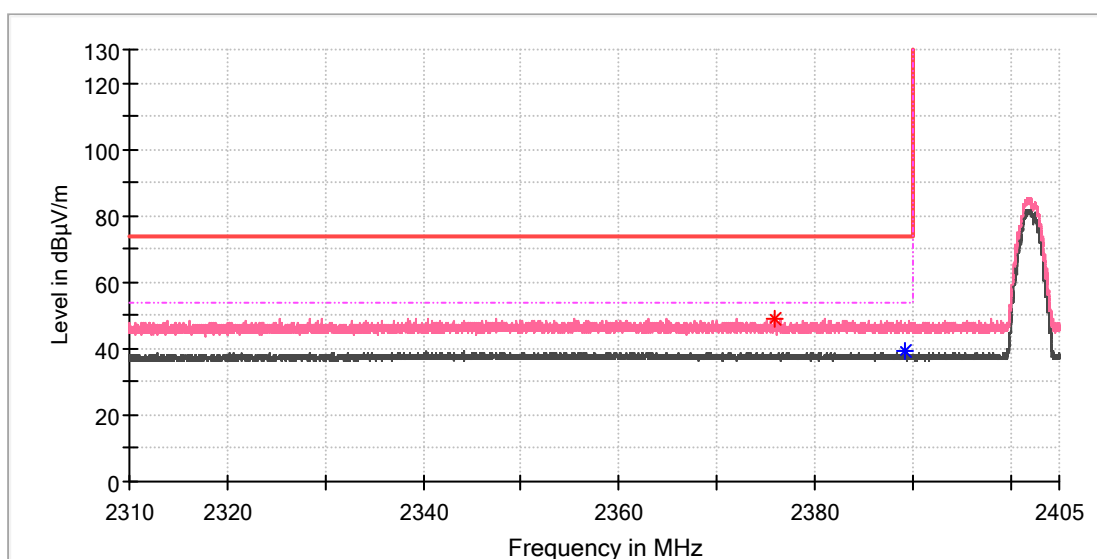


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.921563	---	38.62	54.00	15.38	100.0	H	323.0	7.0
2388.750000	48.39	---	74.00	25.61	100.0	H	359.0	7.0

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_3DH5_Low CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



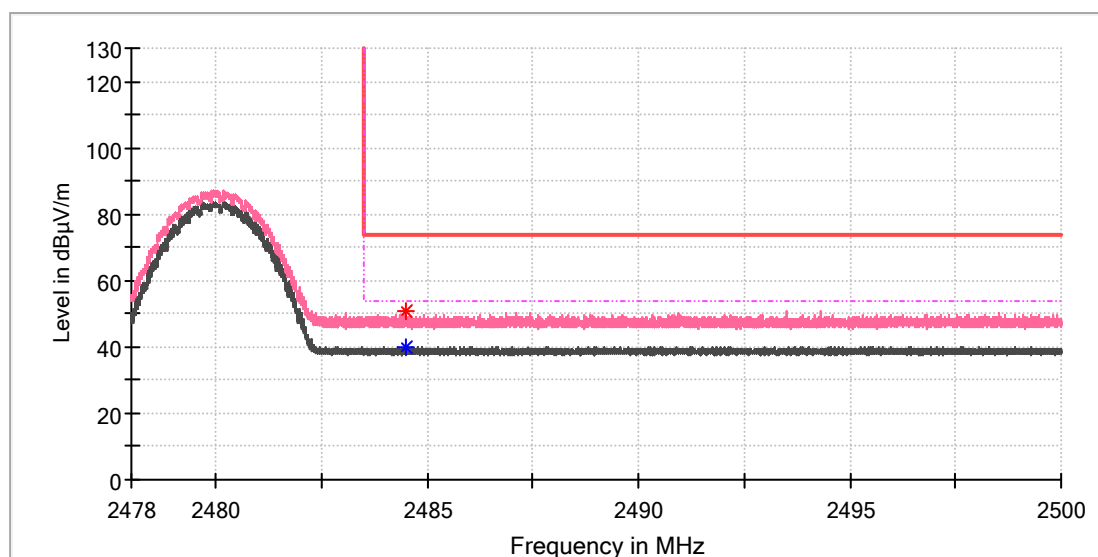
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2376.018750	49.06	---	74.00	24.94	100.0	V	0.0	6.9
2389.235625	---	39.19	54.00	14.81	100.0	V	155.0	7.0

EDR mode, High Channel

EUT Information

EUT Name:	2.0 Channel Soundbar with HDMI-ARC connectivity
Model:	NS-HTSB22
Test Mode:	TX_BT_3DH5_High CH
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

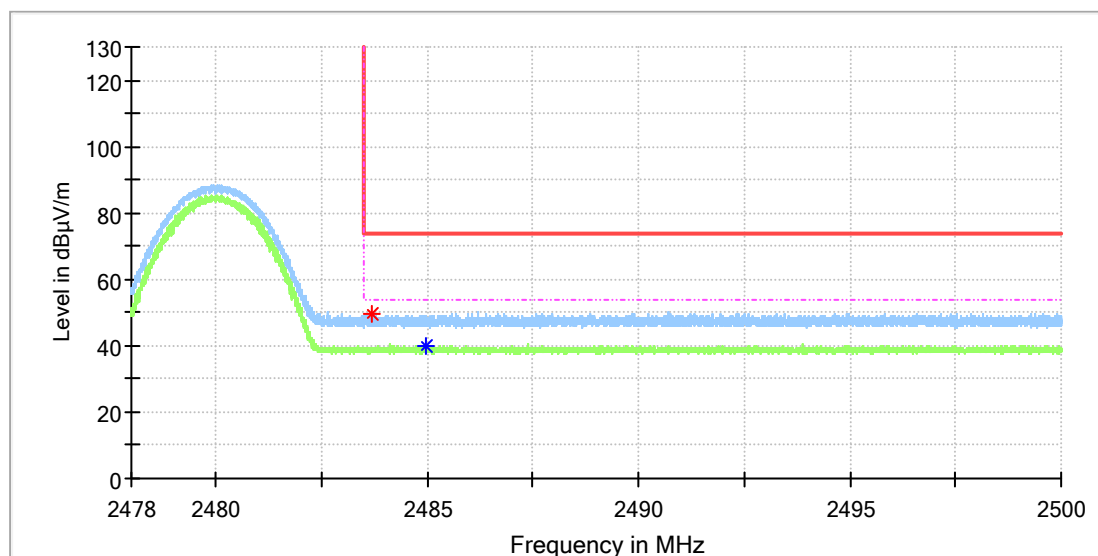


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.479000	50.72	---	74.00	23.28	100.0	V	356.0	7.4
2484.517500	---	39.79	54.00	14.21	100.0	V	104.0	7.4

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: TX_BT_3DH5_High CH
Test Voltage:: AC120V/60Hz
Remark: Temp 23 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



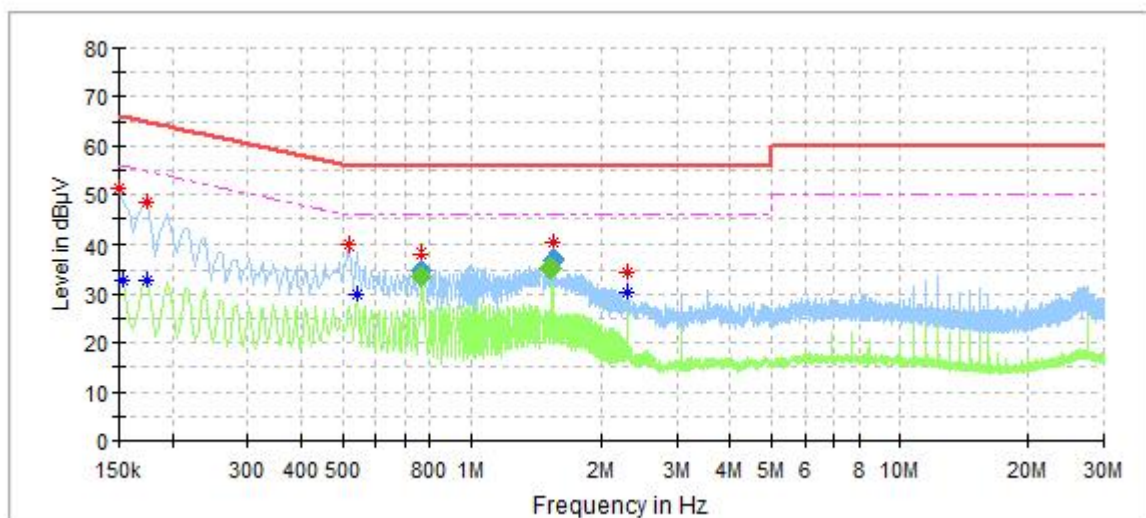
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.710375	49.48	---	74.00	24.52	100.0	H	190.0	7.4
2484.986375	---	39.96	54.00	14.04	100.0	H	180.0	7.4

Appendix C.3: Test Plots of AC Mains Conducted Emission

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: BT Playing
Test Voltage: AC 120V/60Hz
Test By: Mac Xie
Review By: Gary Chen
Remark: SR1



Critical Freqs

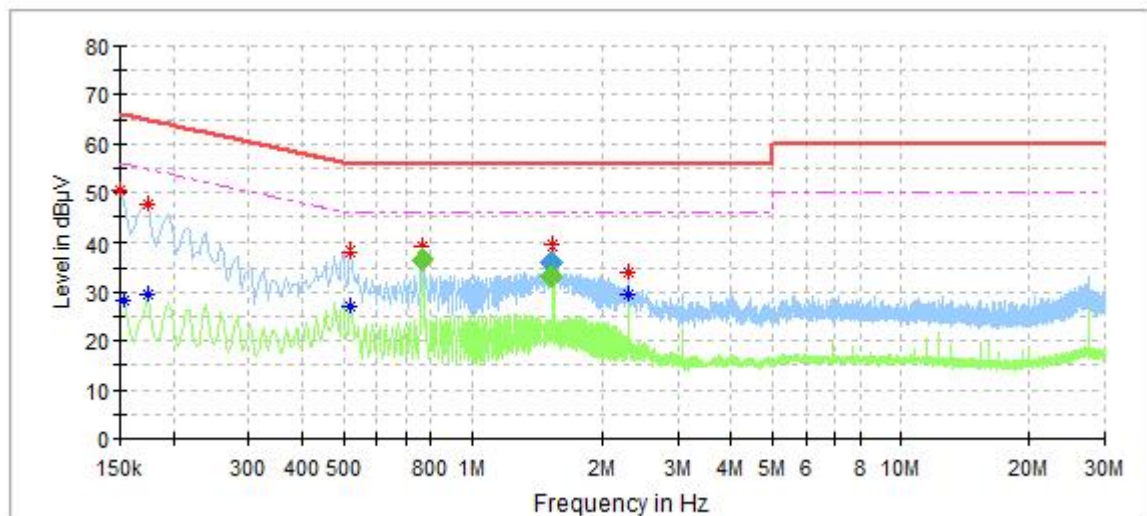
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	51.37	---	66.00	14.63	L1	9.6
0.154000	---	32.76	55.78	23.02	L1	9.6
0.174000	---	32.81	54.77	21.96	L1	9.6
0.174000	48.21	---	64.77	16.56	L1	9.6
0.520000	39.71	---	56.00	16.29	L1	9.7
0.544000	---	30.06	46.00	15.94	L1	9.7
2.304000	34.53	---	56.00	21.47	L1	9.7
2.304000	---	30.32	46.00	15.68	L1	9.7

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.766500	---	33.47	46.00	12.53	200.0	9.000	L1	9.7
0.766500	35.03	---	56.00	20.97	200.0	9.000	L1	9.7
1.534500	---	35.10	46.00	10.90	200.0	9.000	L1	9.7
1.538500	36.93	---	56.00	19.07	200.0	9.000	L1	9.7

EUT Information

EUT Name: 2.0 Channel Soundbar with HDMI-ARC connectivity
Model: NS-HTSB22
Test Mode: BT Playing
Test Voltage: AC 120V/60Hz
Test By: Mac Xie
Review By: Gary Chen
Remark: SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	50.53	---	66.00	15.47	N	9.6
0.154000	---	28.42	55.78	27.36	N	9.6
0.174000	47.47	---	64.77	17.29	N	9.6
0.174000	---	29.36	54.77	25.41	N	9.6
0.520000	---	26.96	46.00	19.04	N	9.7
0.520000	38.17	---	56.00	17.83	N	9.7
2.304000	---	29.49	46.00	16.51	N	9.7
2.304000	34.11	---	56.00	21.89	N	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.766500	---	36.56	46.00	9.44	200.0	9.000	N	9.7
0.766500	36.66	---	56.00	19.34	200.0	9.000	N	9.7
1.534500	---	33.20	46.00	12.80	200.0	9.000	N	9.7
1.534500	36.23	---	56.00	19.77	200.0	9.000	N	9.7