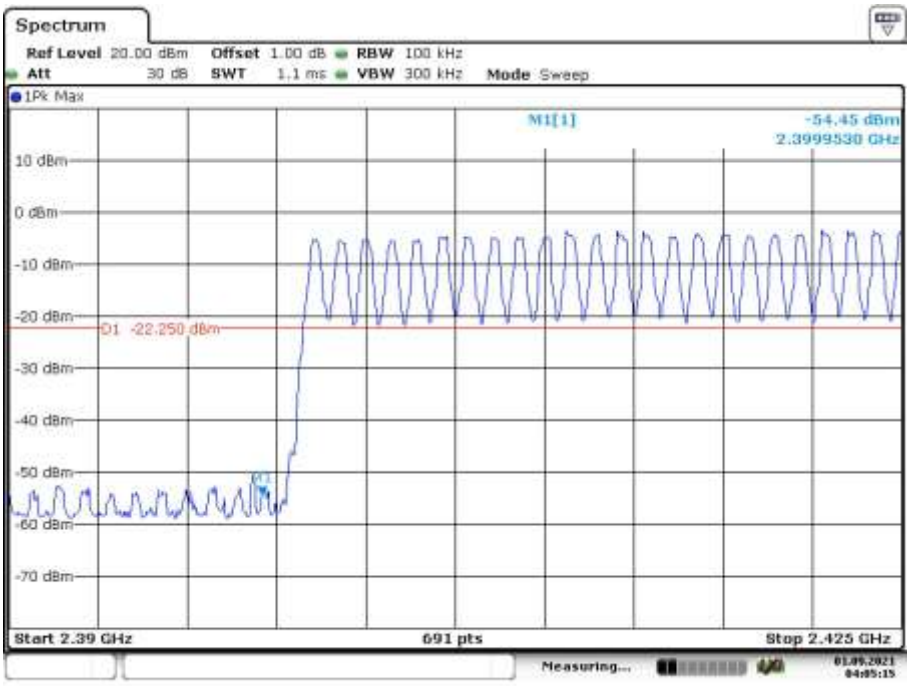
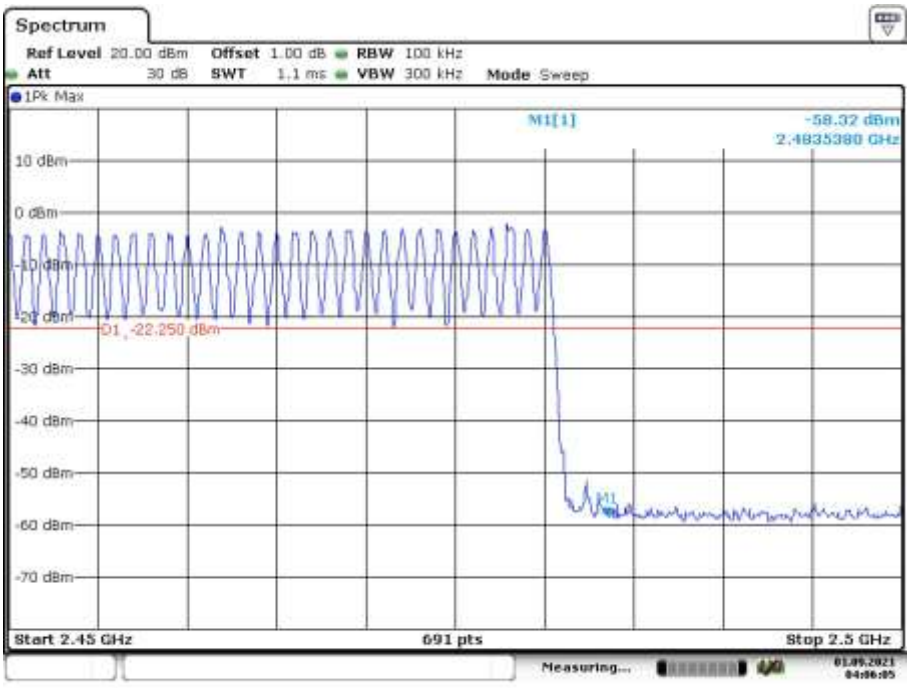
Band Edge, Hopping Mode, Low Channel

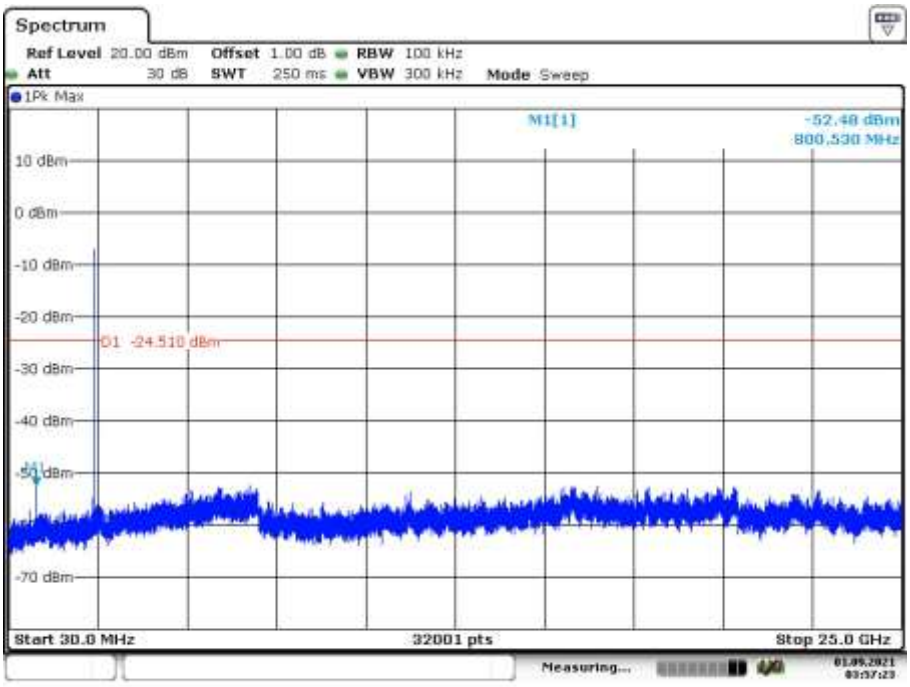


Band Edge, Hopping Mode, High Channle

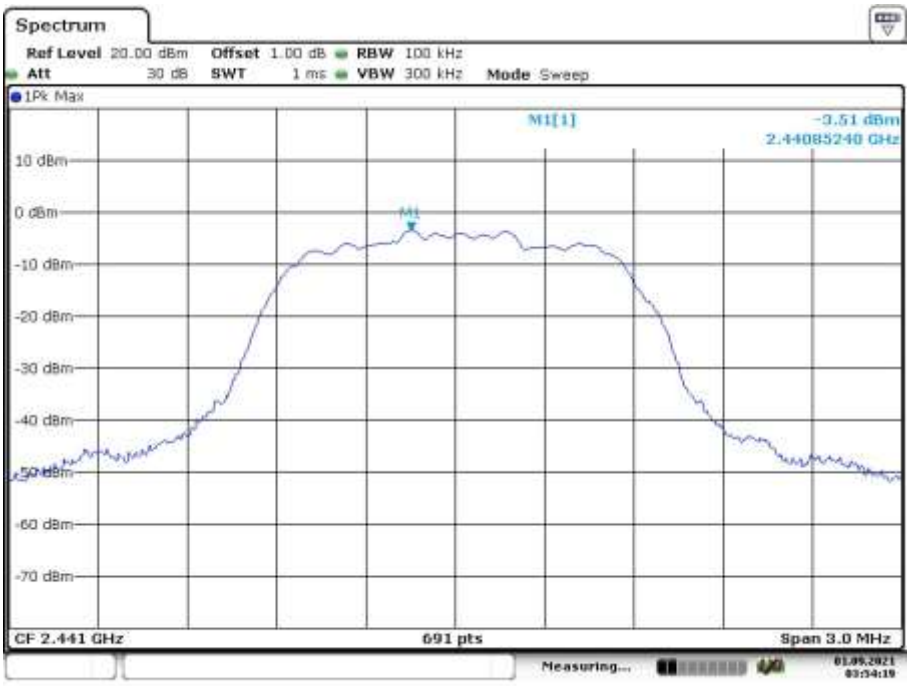


EDR mode (8DPSK)

Low Channel



Middle Channel



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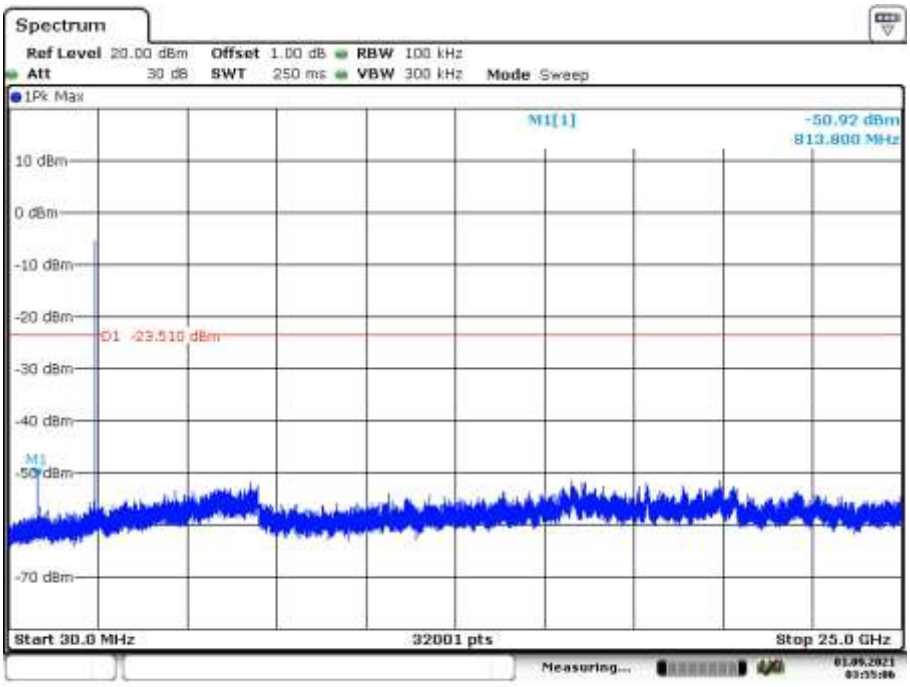

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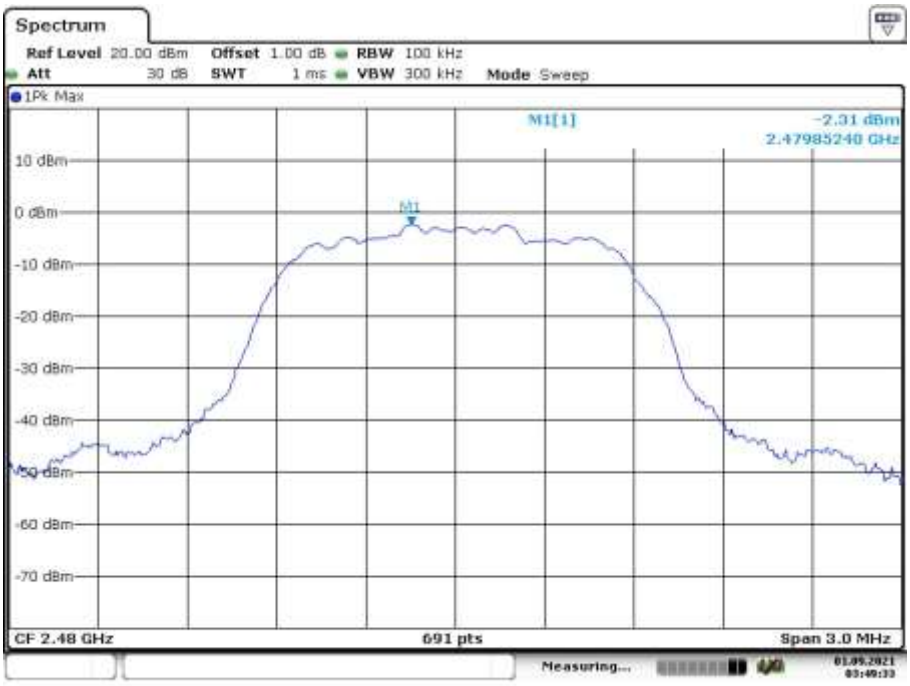
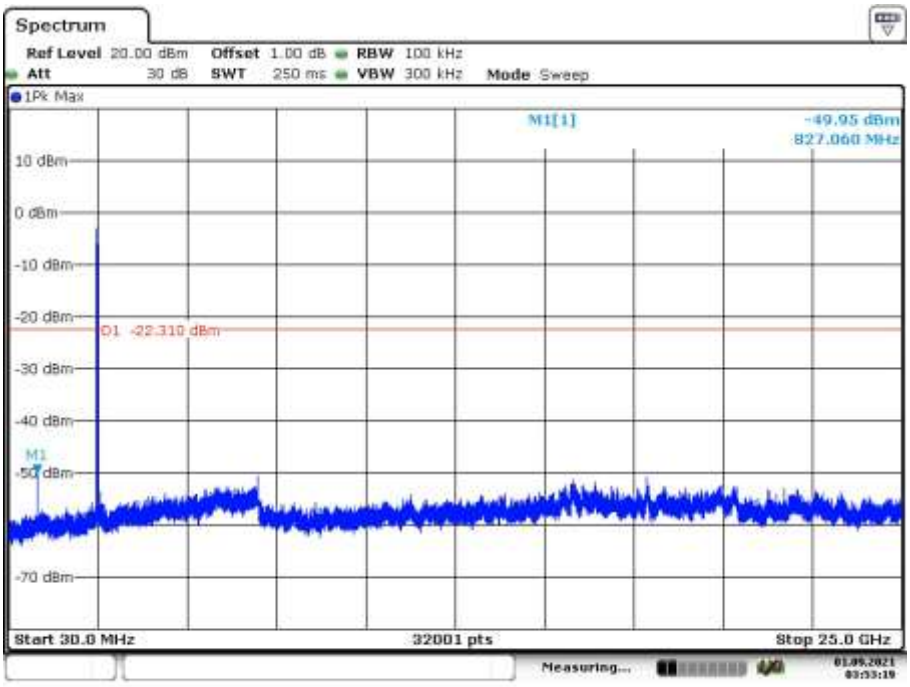
High Channel

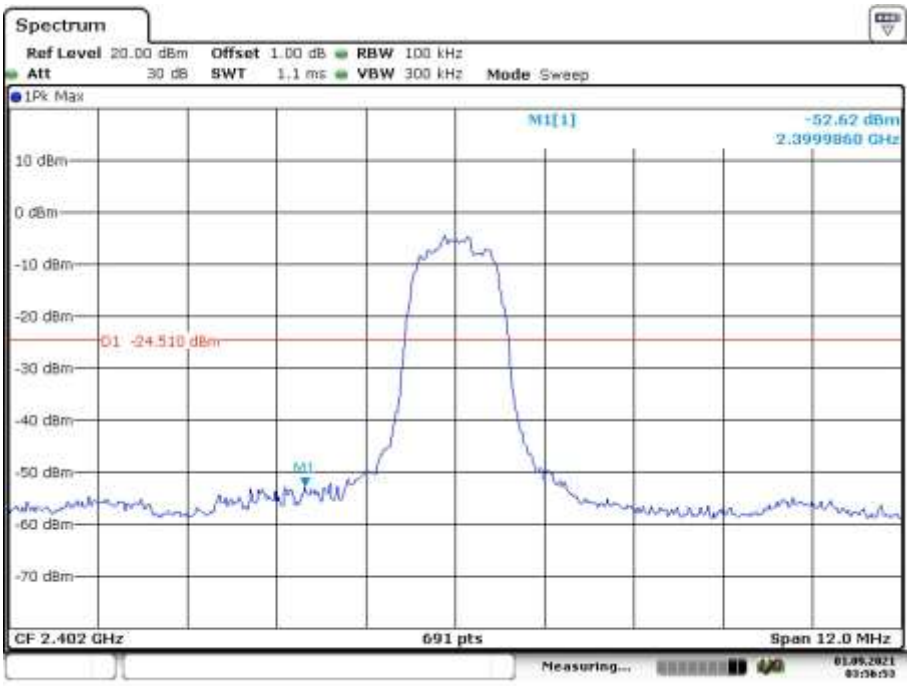


Date: 1.SEP.2021 03:49:34



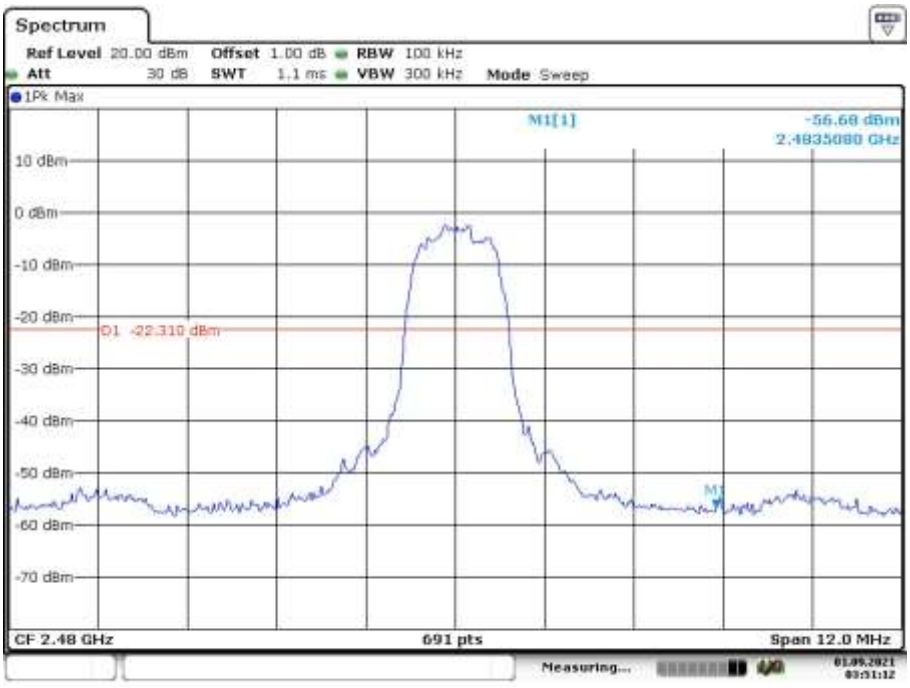
Date: 1.SEP.2021 03:53:19

Band Edge, Low Channel



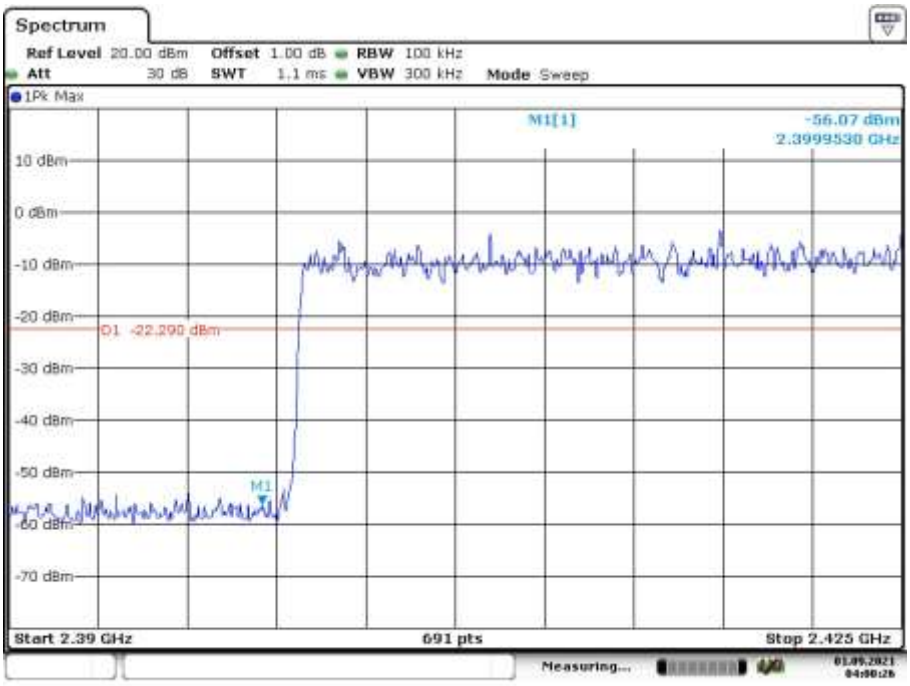
Date: 1.SEP.2021 03:56:53

Band Edge, High Channel

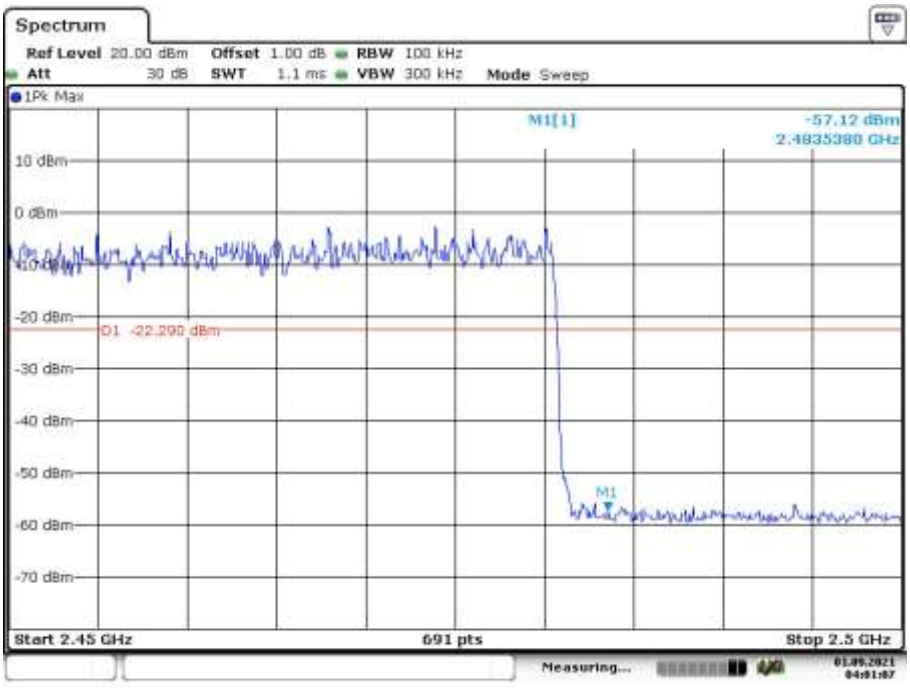


Date: 1.SEP.2021 03:51:13

Band Edge, Hopping Mode, Low Channel



Band Edge, Hopping Mode, High Channle



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

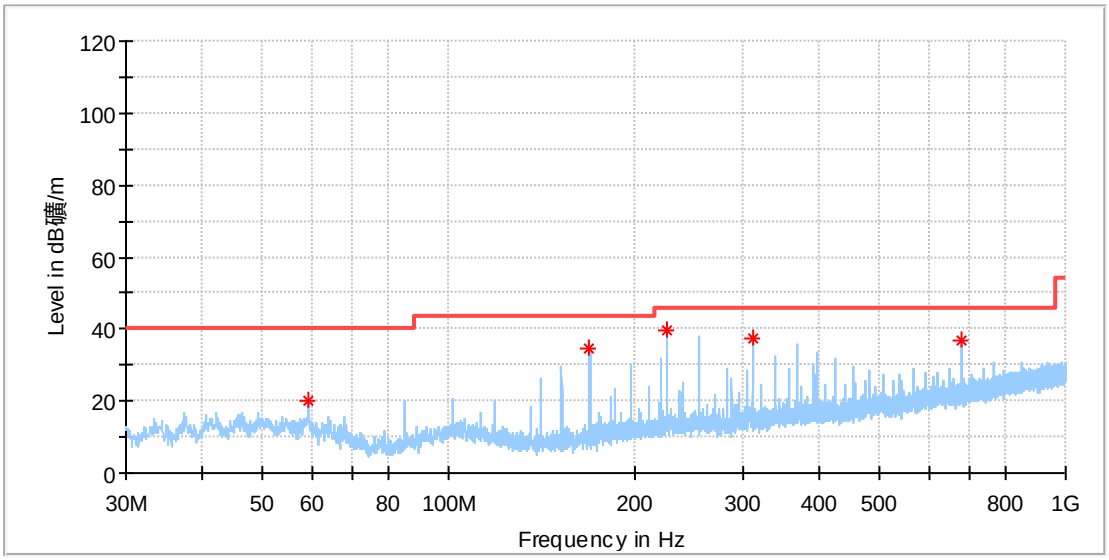
Appendix B.7: Test Results of Radiated Spurious Emissions

Note: This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

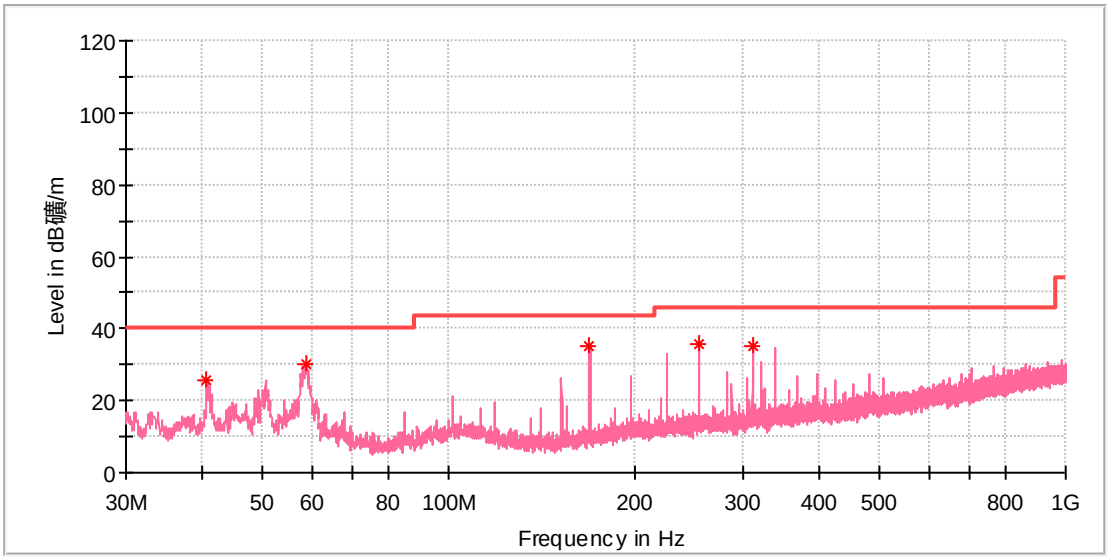
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.148500	20.08	40.00	19.92	100.0	H	178.0	-18.9
169.340500	34.34	43.50	9.16	100.0	H	333.0	-21.2
225.794500	39.63	46.00	6.37	100.0	H	178.0	-18.3
310.475500	37.62	46.00	8.38	100.0	H	197.0	-15.9
677.426500	36.72	46.00	9.28	100.0	H	106.0	-8.5

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
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)
40.524500	25.58	40.00	14.42	100.0	V	92.0	-20.0
58.857500	30.23	40.00	9.77	100.0	V	238.0	-18.9
169.340500	35.25	43.50	8.25	100.0	V	0.0	-21.2
254.021500	35.88	46.00	10.12	100.0	V	14.0	-17.2
310.475500	35.25	46.00	10.75	100.0	V	133.0	-15.9

Final_Result

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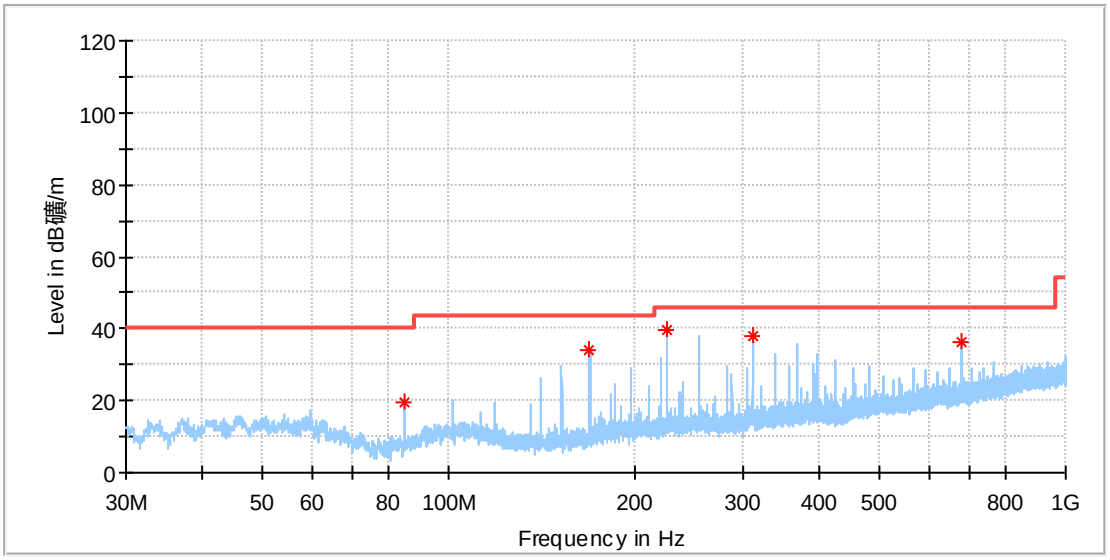
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
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)
84.659500	19.26	40.00	20.74	100.0	H	287.0	-22.4
169.340500	33.96	43.50	9.54	100.0	H	333.0	-21.2
225.794500	39.52	46.00	6.48	100.0	H	169.0	-18.3
310.475500	37.78	46.00	8.22	100.0	H	186.0	-15.9
677.426500	36.53	46.00	9.47	100.0	H	97.0	-8.5

Final_Result

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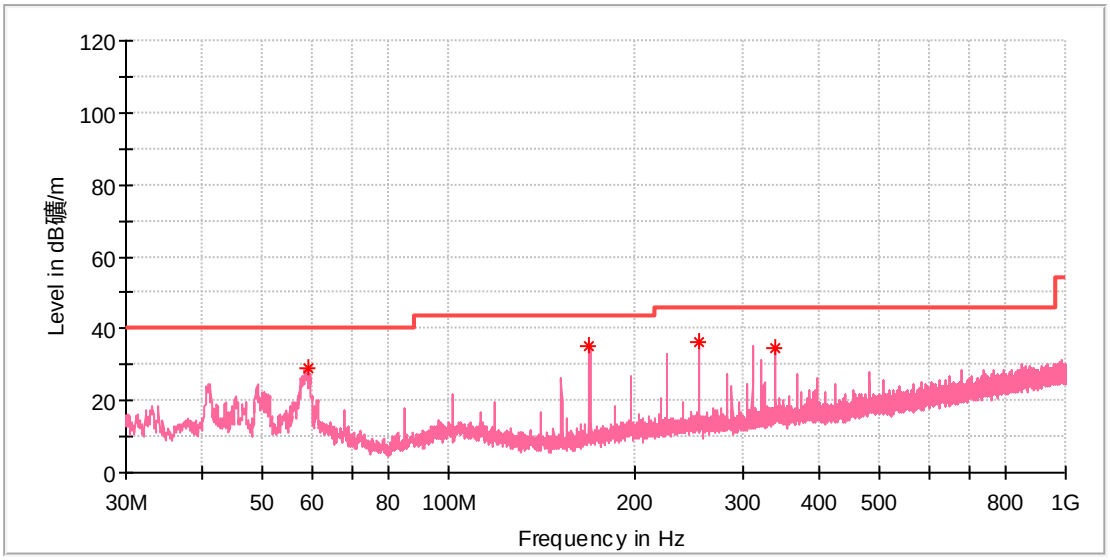
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
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)
59.342500	28.84	40.00	11.16	100.0	V	9.0	-18.9
169.340500	35.17	43.50	8.33	100.0	V	0.0	-21.2
254.021500	36.26	46.00	9.74	100.0	V	32.0	-17.2
338.702500	34.78	46.00	11.22	100.0	V	63.0	-15.0

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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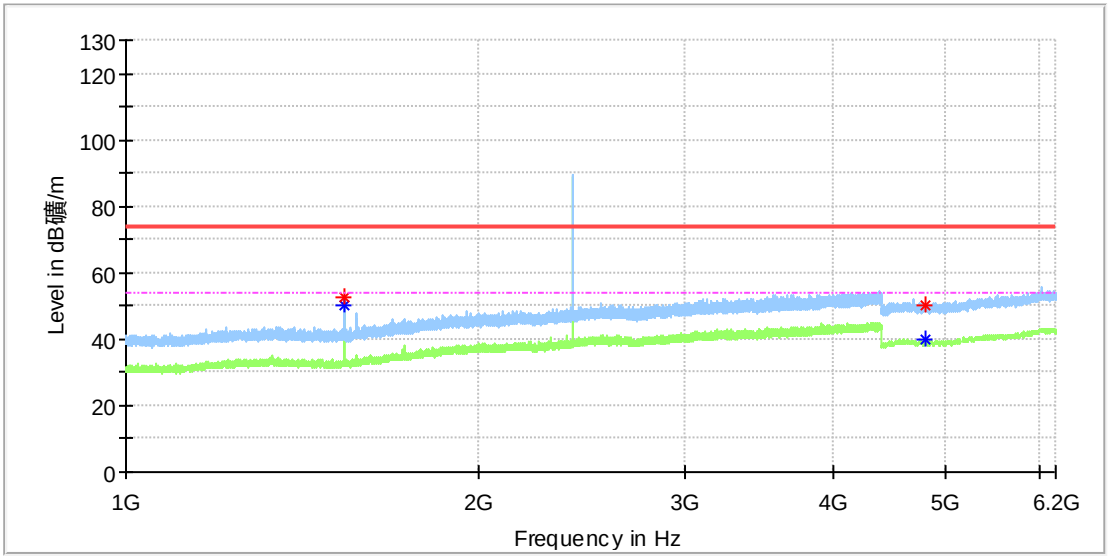
1GHz - 18GHz
Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

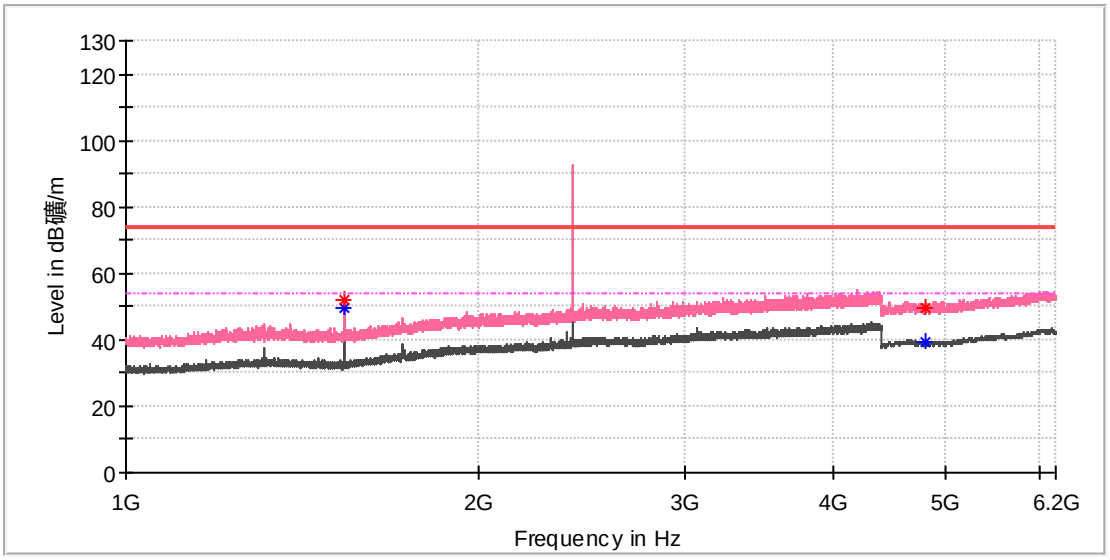
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.500000	52.90	---	74.00	21.10	100.0	H	355.0	1.4
1535.840000	---	50.04	54.00	3.96	100.0	H	355.0	1.4
4806.000000	---	39.64	54.00	14.36	100.0	H	0.0	11.8
4806.500000	50.36	---	74.00	23.64	100.0	H	13.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
1535.500000	52.03	---	74.00	21.97	100.0	V	133.0	1.4
1535.500000	---	49.58	54.00	4.42	100.0	V	133.0	1.4
4803.000000	49.68	---	74.00	24.32	100.0	V	197.0	11.8
4804.000000	---	39.52	54.00	14.48	100.0	V	162.0	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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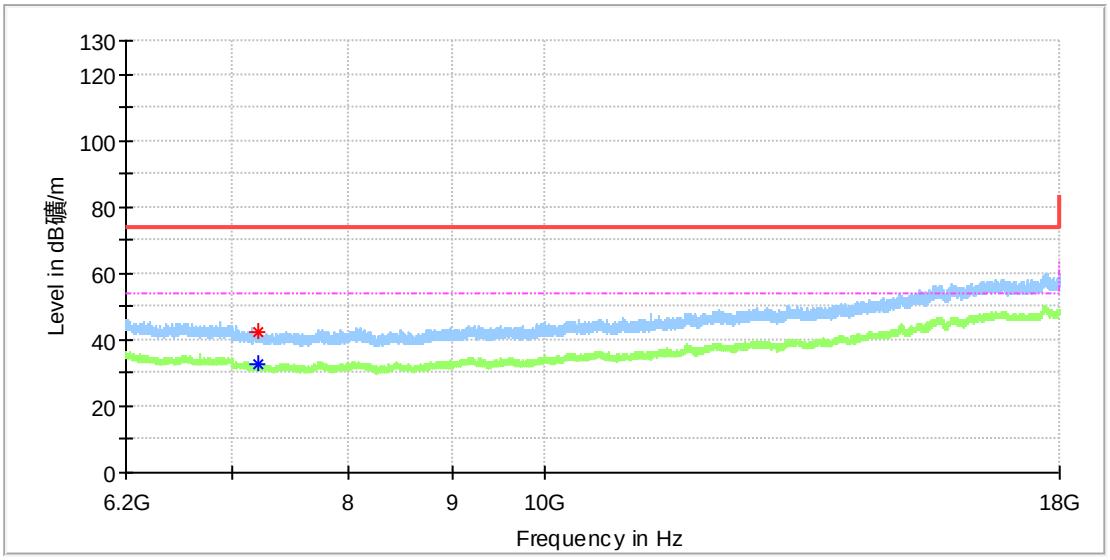
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

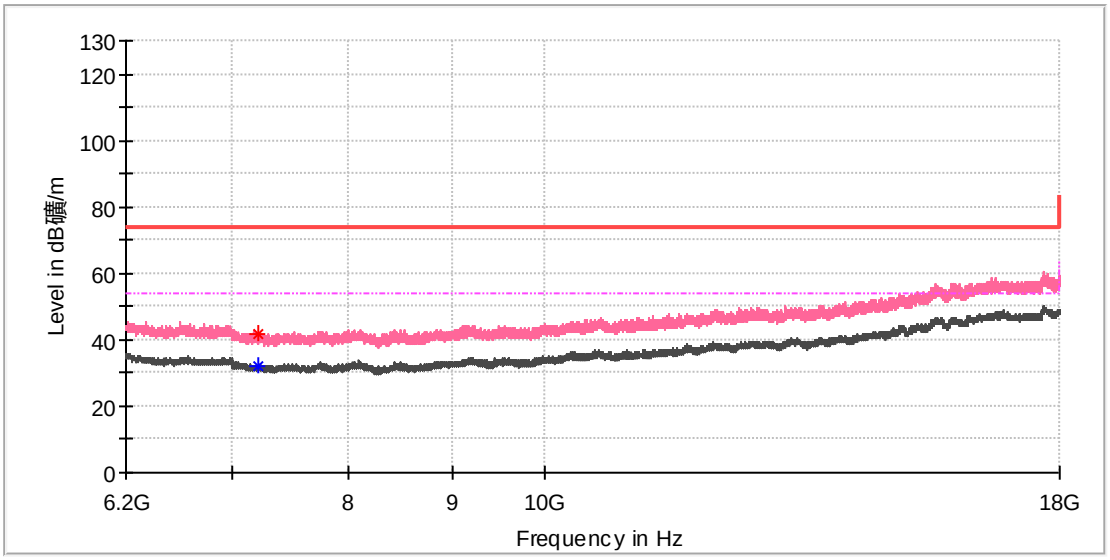
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7210.375000	---	32.68	54.00	21.32	100.0	H	328.0	8.7
7214.800000	42.25	---	74.00	31.75	100.0	H	354.0	8.7

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
7205.950000	---	31.79	54.00	22.21	100.0	V	270.0	8.8
7209.883333	41.52	---	74.00	32.48	100.0	V	91.0	8.7

Final_Result

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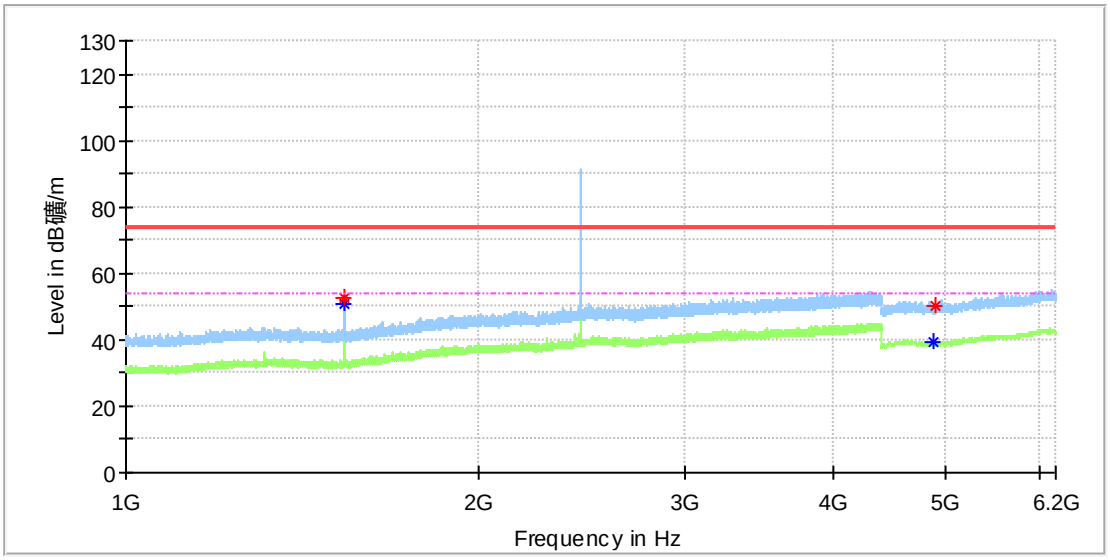
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
1535.500000	52.84	---	74.00	21.16	100.0	H	354.0	1.4
1535.670000	---	50.93	54.00	3.07	100.0	H	238.0	1.4
4883.000000	---	39.01	54.00	14.99	100.0	H	180.0	11.8
4890.000000	50.19	---	74.00	23.81	100.0	H	129.0	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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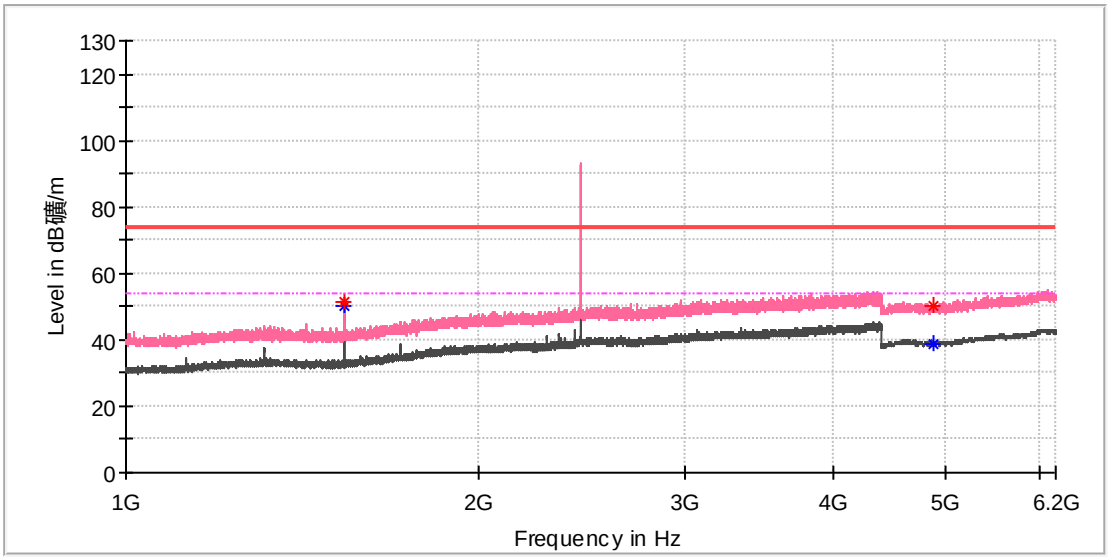
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

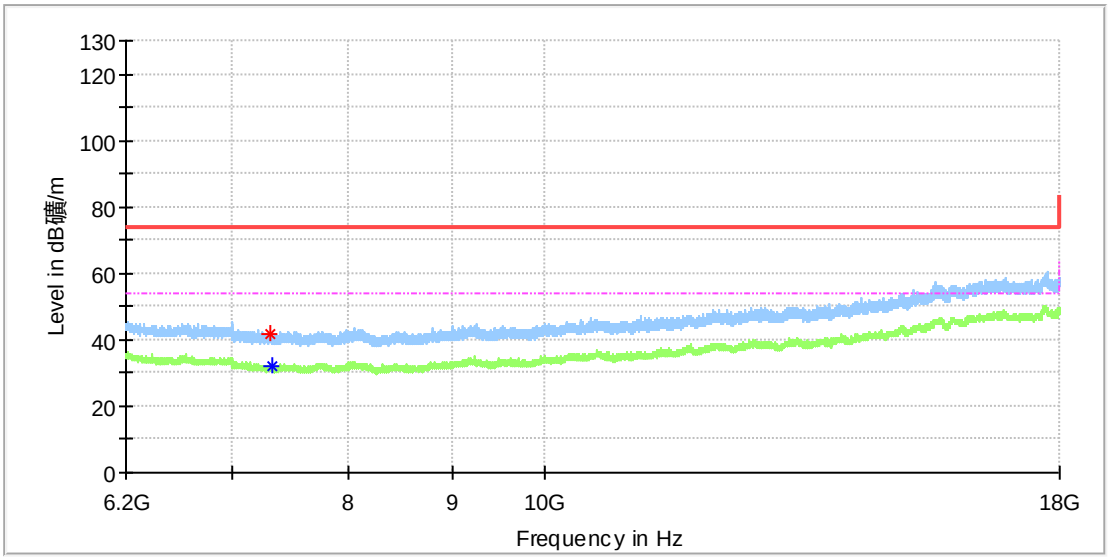
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.500000	51.65	---	74.00	22.35	100.0	V	169.0	1.4
1535.500000	---	49.91	54.00	4.09	100.0	V	169.0	1.4
4879.000000	---	38.93	54.00	15.07	100.0	V	0.0	11.8
4884.000000	50.35	---	74.00	23.65	100.0	V	167.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

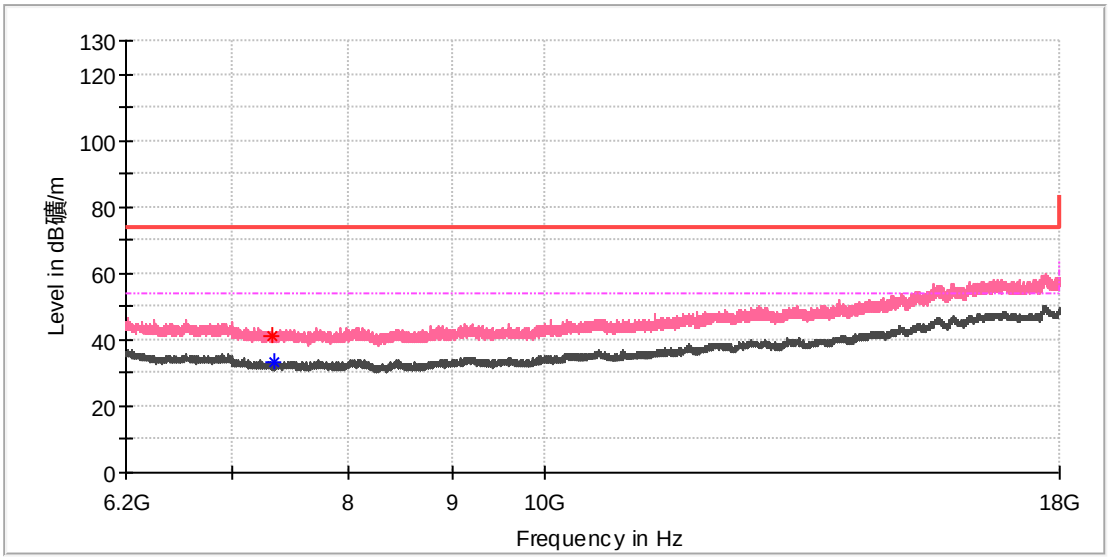
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7315.100000	41.46	---	74.00	32.54	100.0	H	355.0	8.2
7328.866667	---	32.24	54.00	21.76	100.0	H	6.0	8.1

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

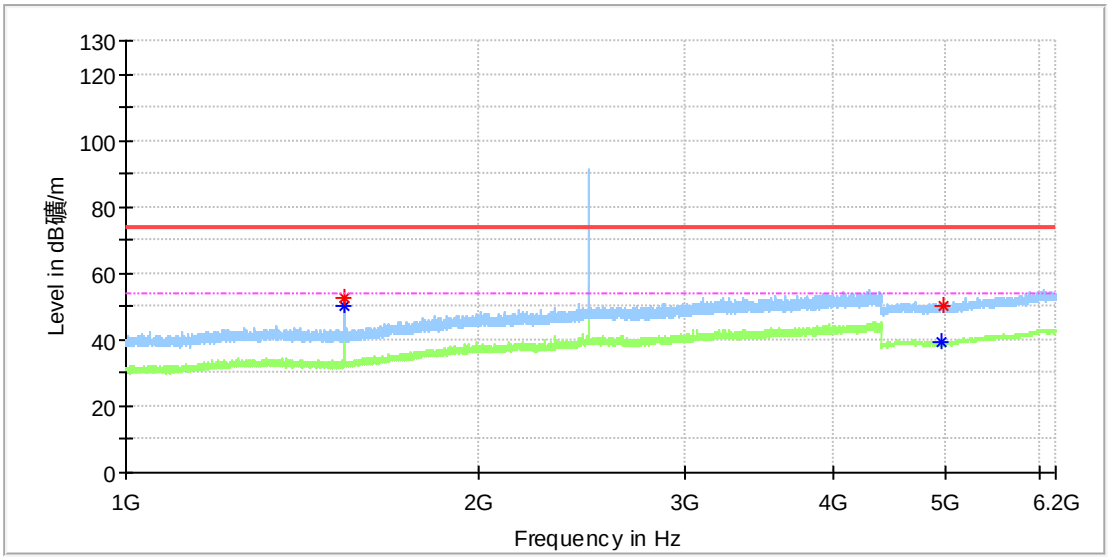
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7324.933333	41.30	---	74.00	32.70	100.0	V	233.0	8.2
7336.733333	---	33.28	54.00	20.72	100.0	V	233.0	8.1

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

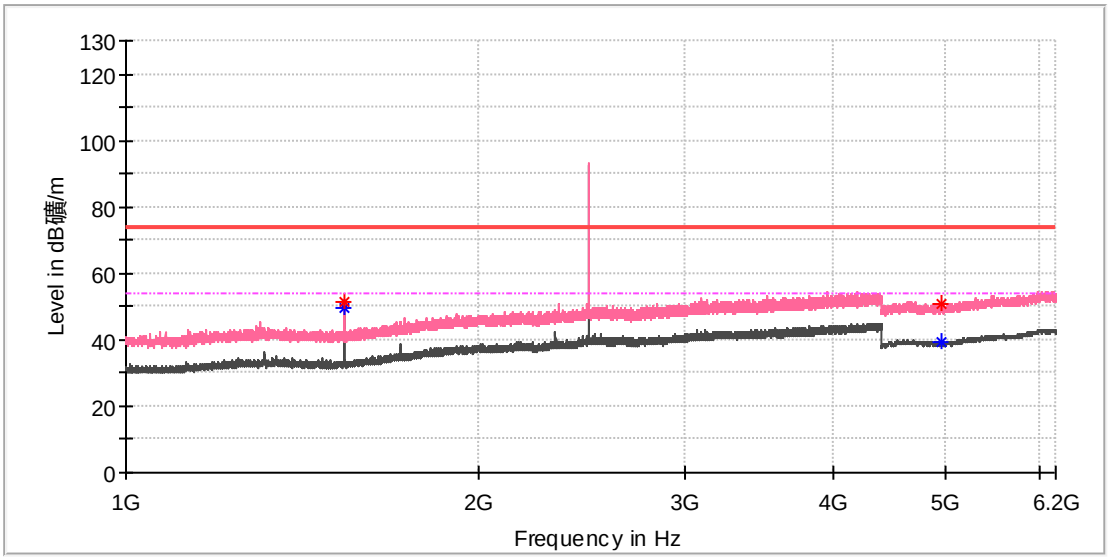
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.330000	---	50.23	54.00	3.77	100.0	H	252.0	1.4
1535.500000	52.38	---	74.00	21.62	100.0	H	354.0	1.4
4955.500000	---	39.38	54.00	14.62	100.0	H	107.0	11.8
4968.500000	50.10	---	74.00	23.90	100.0	H	301.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

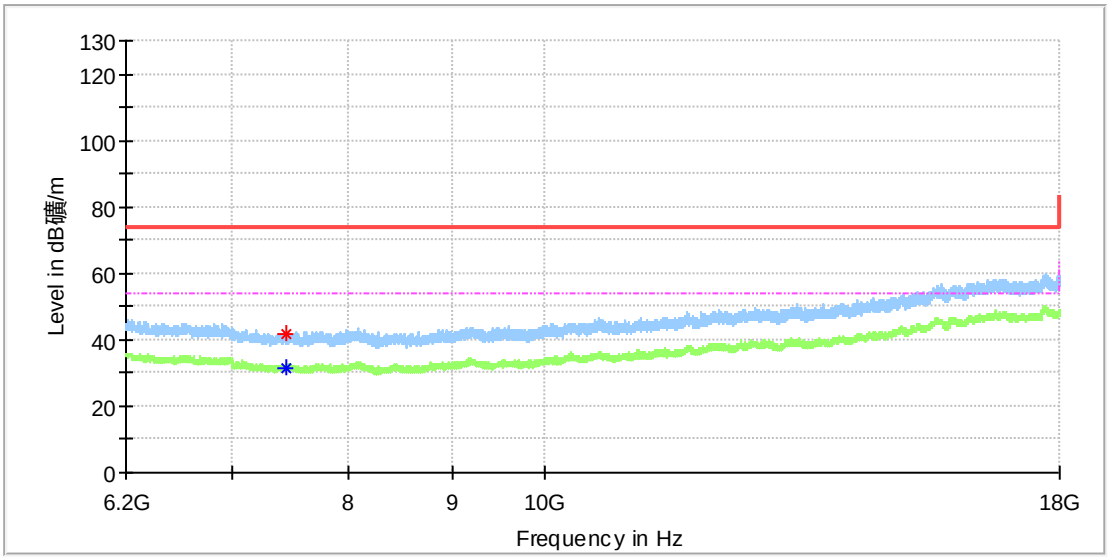
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.500000	51.40	---	74.00	22.60	100.0	V	167.0	1.4
1535.500000	---	49.65	54.00	4.35	100.0	V	167.0	1.4
4956.500000	---	39.24	54.00	14.76	100.0	V	262.0	11.8
4962.500000	50.54	---	74.00	23.46	100.0	V	186.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

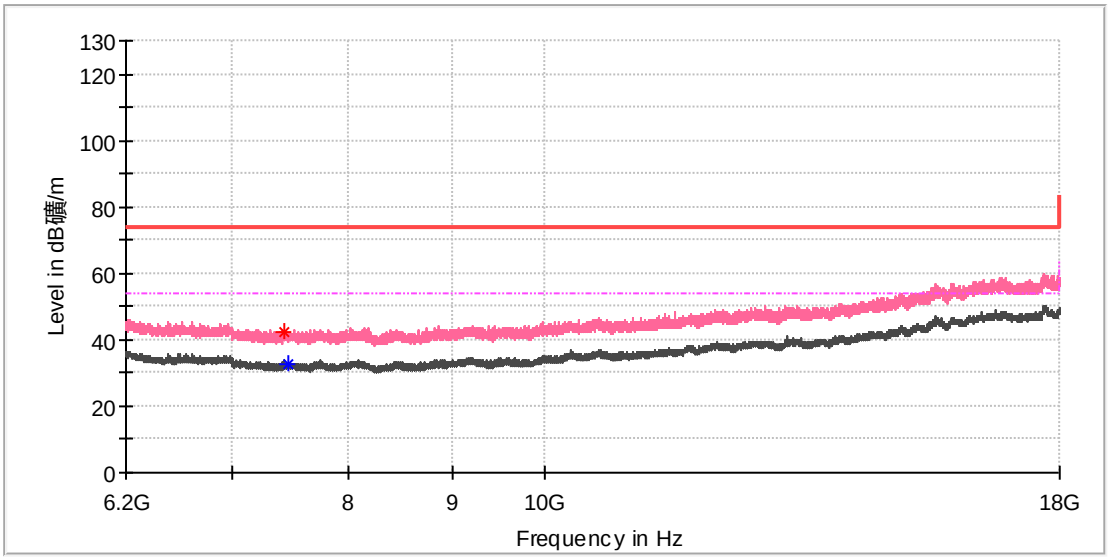
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.475000	---	31.42	54.00	22.58	100.0	H	188.0	8.4
7442.441667	41.71	---	74.00	32.29	100.0	H	244.0	8.4

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
7433.100000	42.25	---	74.00	31.75	100.0	V	37.0	8.4
7453.750000	---	32.91	54.00	21.09	100.0	V	356.0	8.5

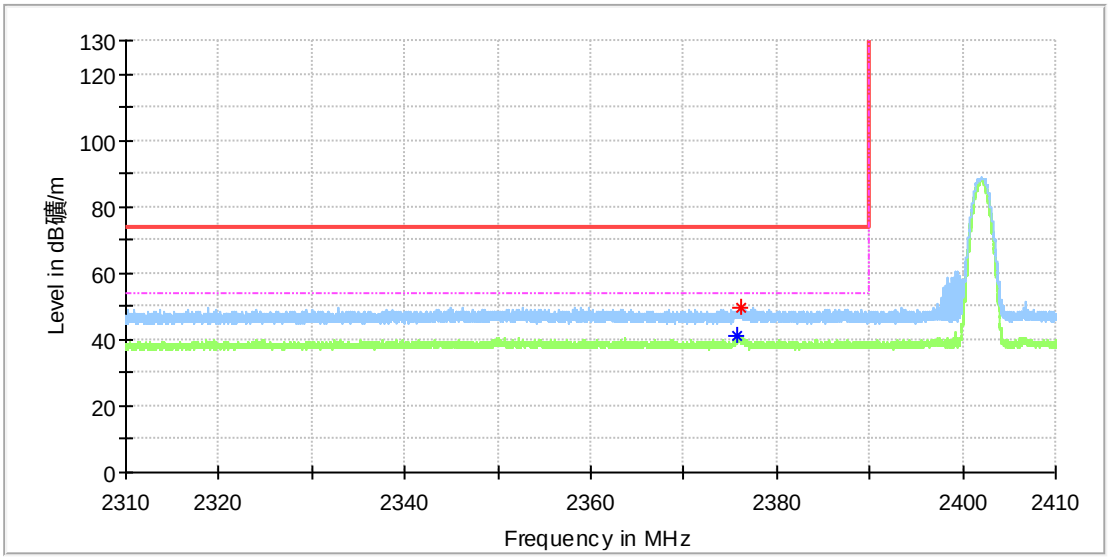
Final_Result

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

Appendix B.8: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

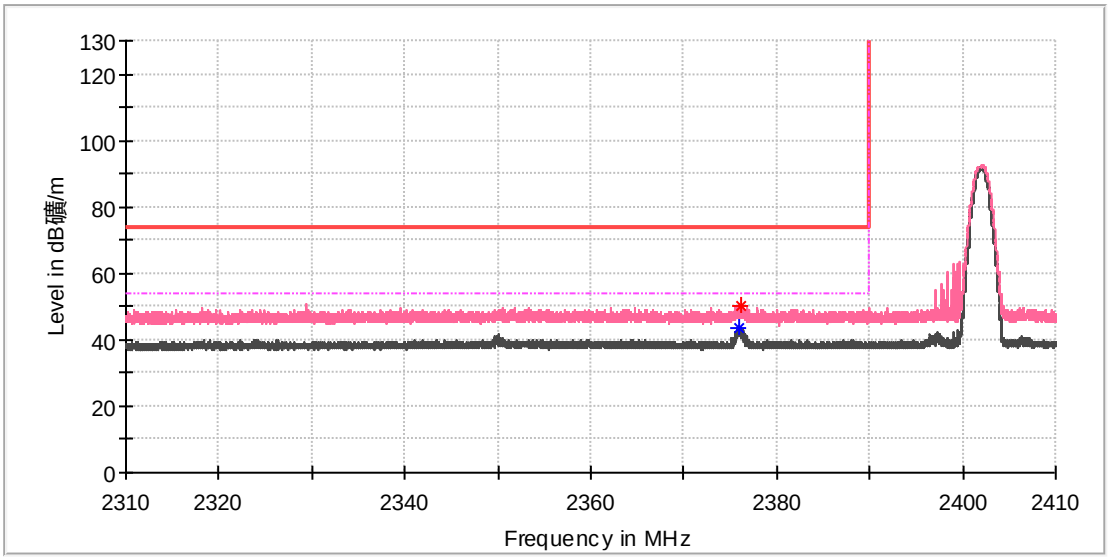
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.670000	---	41.36	54.00	12.64	100.0	H	281.0	6.9
2376.065000	49.50	---	74.00	24.50	100.0	H	281.0	6.9

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

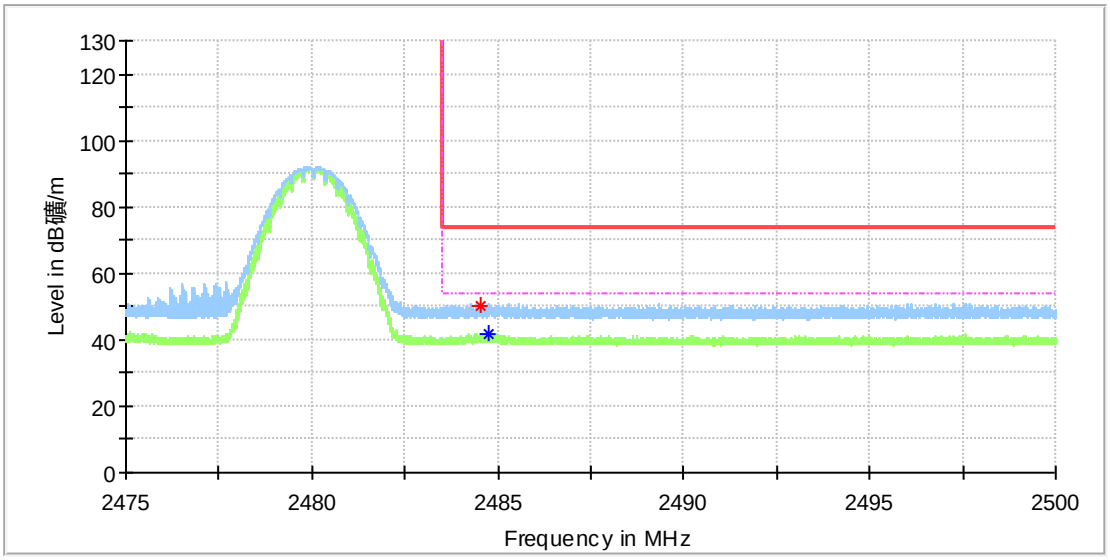
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2376.015000	---	43.47	54.00	10.53	100.0	V	295.0	6.9
2376.225000	50.46	---	74.00	23.54	100.0	V	269.0	6.9

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

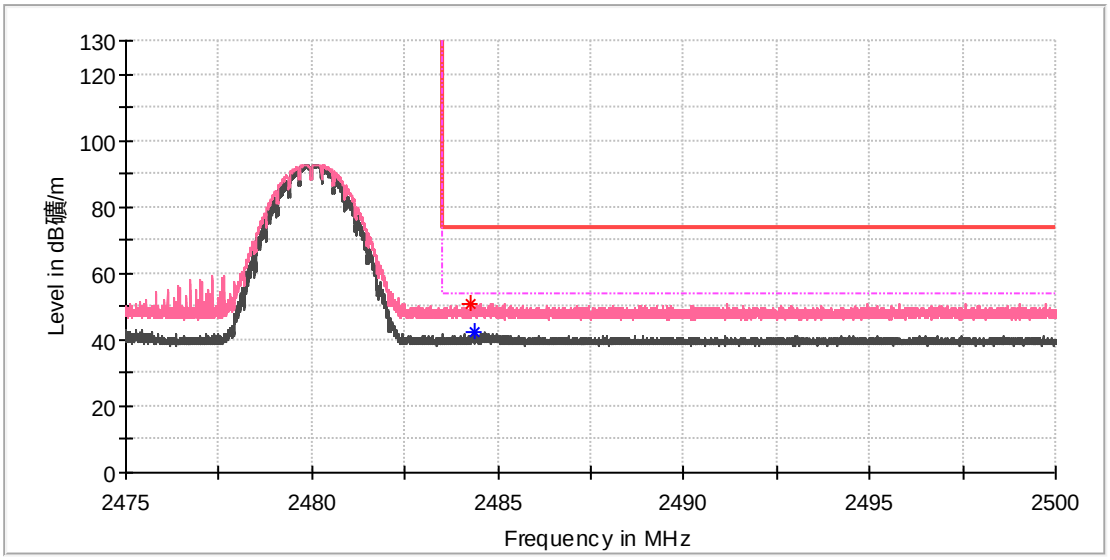
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.530000	49.90	---	74.00	24.10	100.0	H	174.0	7.4
2484.765000	---	41.85	54.00	12.15	100.0	H	41.0	7.4

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BR_DH5_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
2484.273750	50.97	---	74.00	23.03	100.0	V	295.0	7.4
2484.386250	---	42.26	54.00	11.74	100.0	V	295.0	7.4

Final_Result

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

Appendix C: Test Results of Bluetooth LE & Conducted Emission

APPENDIX C: TEST RESULTS OF BLUETOOTH LE & CONDUCTED EMISSION 1

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APPENDIX C.2: TEST RESULTS OF 6DB BANDWIDTH 4
APPENDIX C.3: TEST RESULTS OF 99% BANDWIDTH 7
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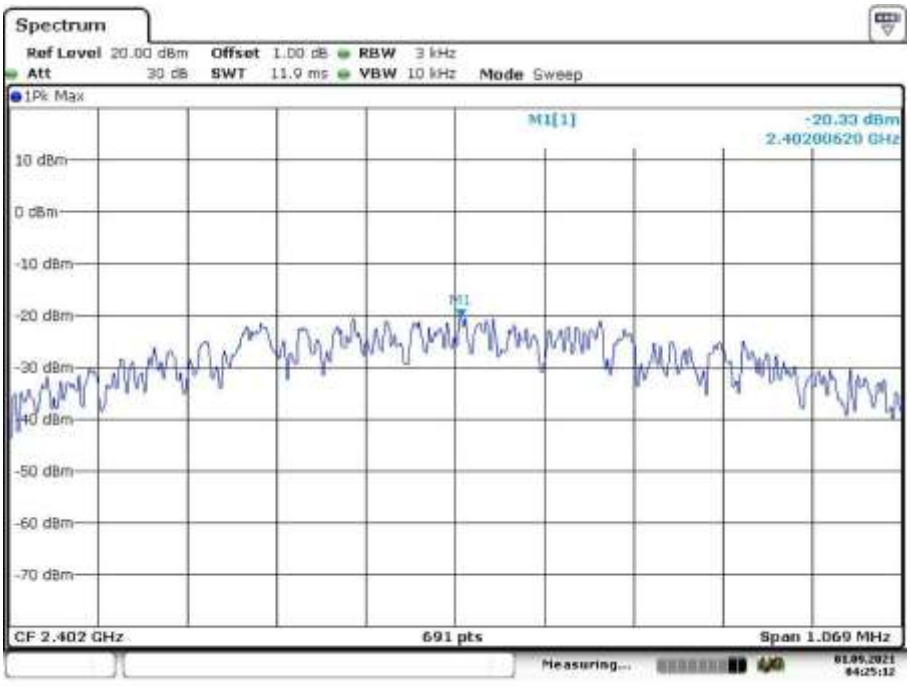
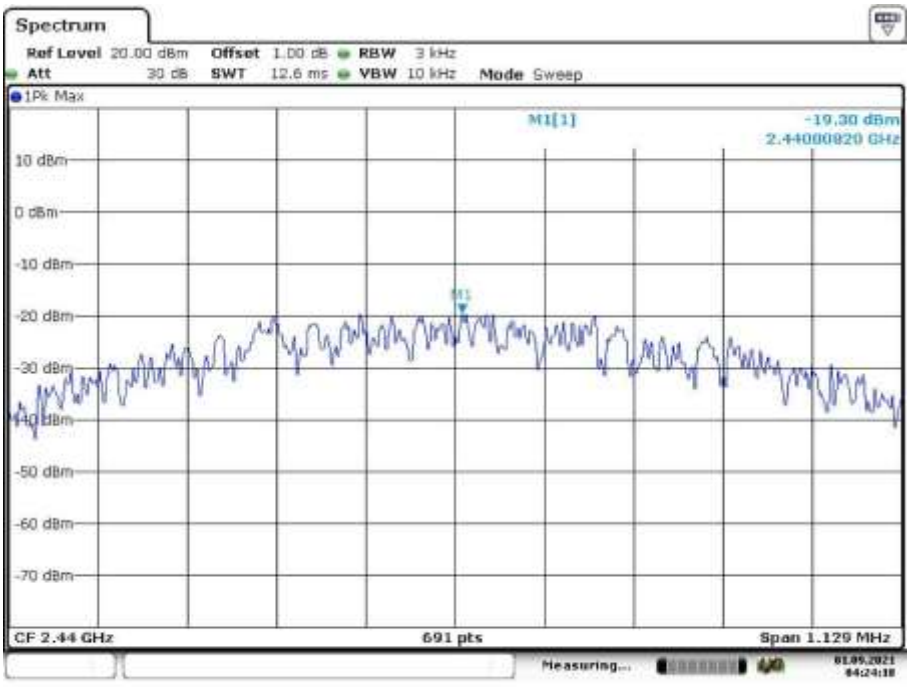
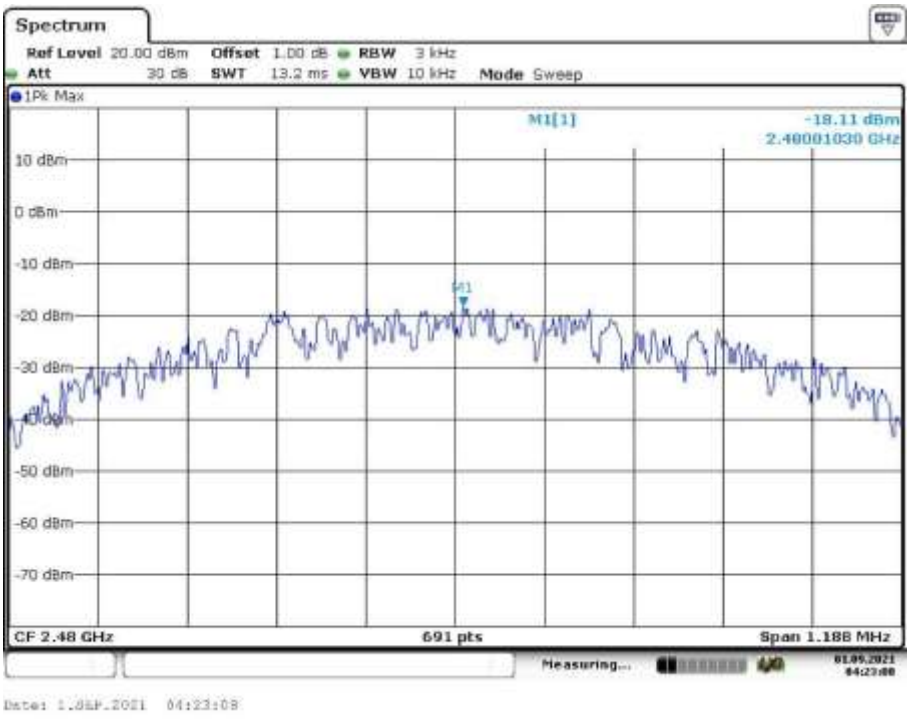
Appendix C.1: Test Results of Conducted Power Spectral Density



Date: 1.SEP.2021 04:25:12



Date: 1.SEP.2021 04:24:19


Spectrum
Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz
Att 30 dB SWT 13.2 ms VBW 10 kHz Mode Sweep
1Pk Max
M1[1]
-18.11 dBm
2.48001030 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.48 GHz
691 pts
Span 1.188 MHz
Measuring...
Date: 1.SEP.2021 04:23:08

Appendix C.2: Test Results of 6dB Bandwidth

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2402 MHz; 10.000 dBm; 2 MHz)

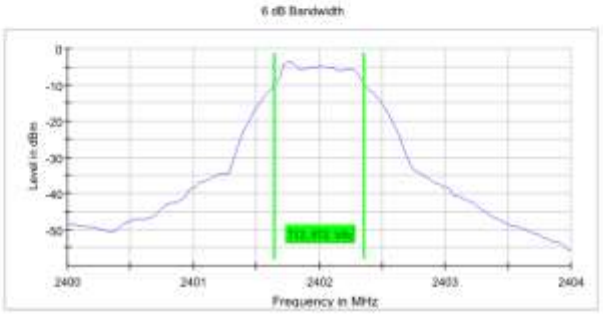
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.712872	0.500000	---	2401.643564	2402.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-3.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2440 MHz; 10.000 dBm; 2 MHz)

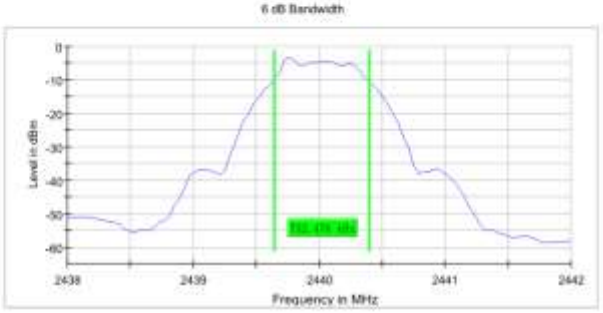
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.752476	0.500000	---	2439.643564	2440.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-3.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2480 MHz; 10.000 dBm; 2 MHz)

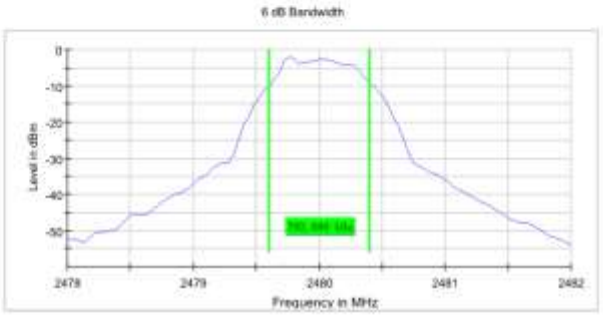
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.792080	0.500000	---	2479.603960	2480.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-2.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.21 dB	0.50 dB

Appendix C.3: Test Results of 99% Bandwidth

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 2 MHz)

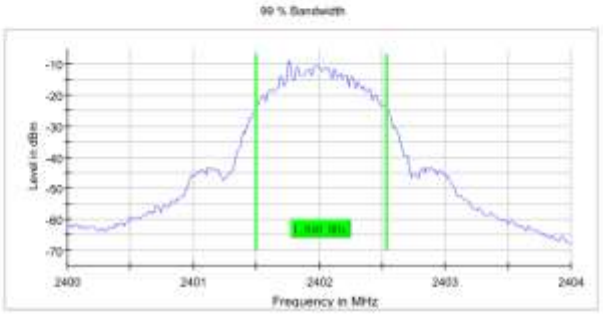
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.040000	---	---	2401.495000	2402.535000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.17 dB	0.30 dB

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2440 MHz; 10.000 dBm; 2 MHz)

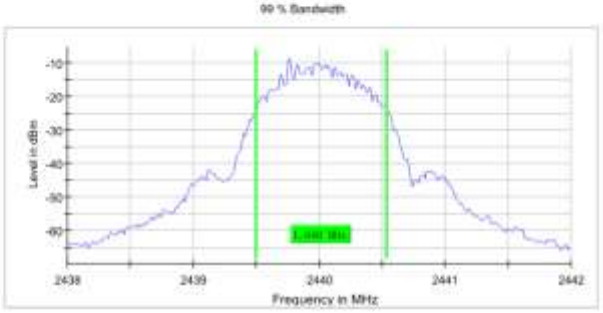
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.040000	---	---	2439.495000	2440.535000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	= 400
Sweeptime	94.824 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.14 dB	0.30 dB

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 2 MHz)

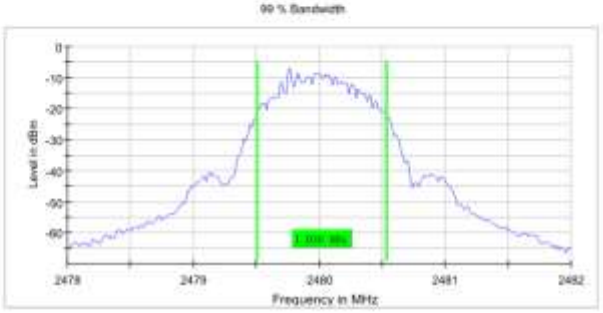
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.030000	---	---	2479.505000	2480.535000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

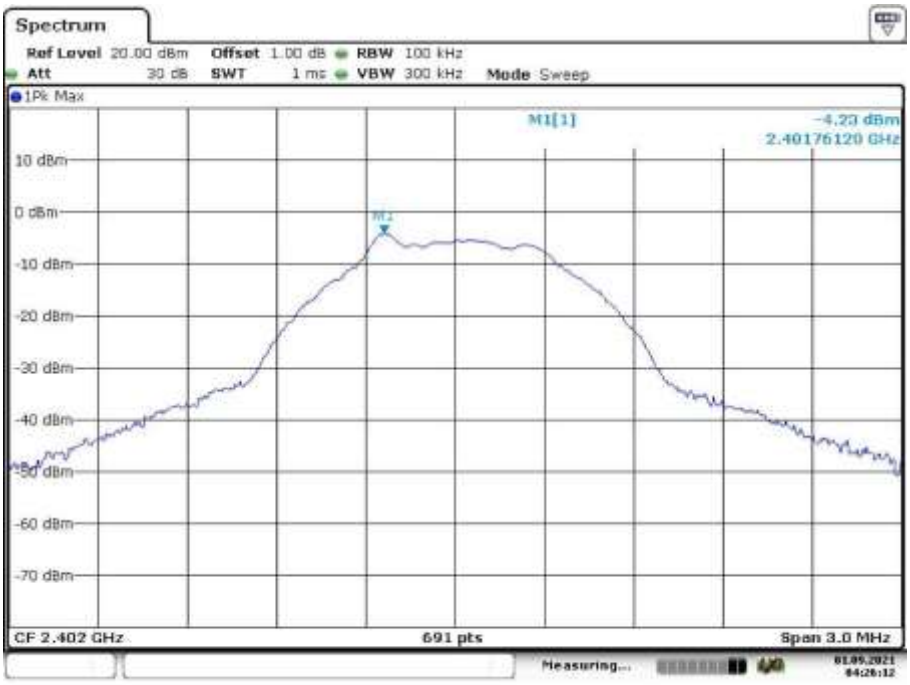


Measurement

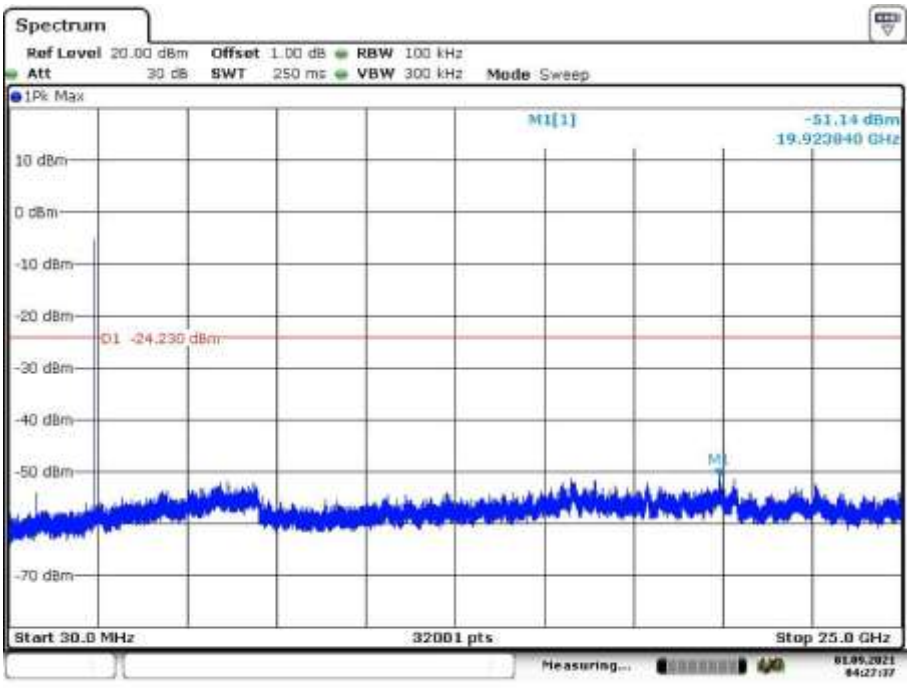
Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	= 400
Sweeptime	94.824 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

Appendix C.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Low Channel:

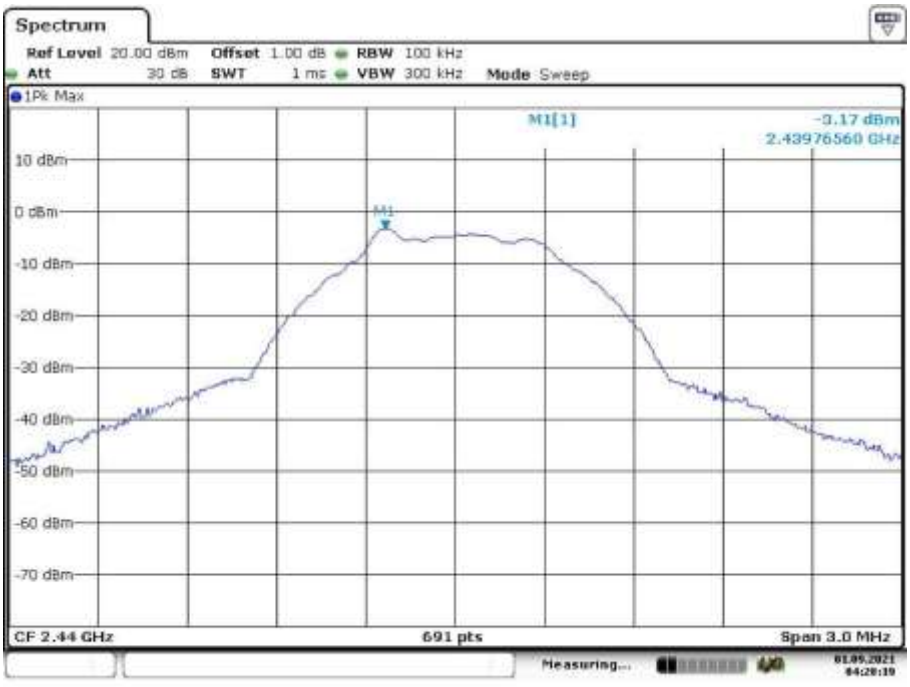


Date: 1.SEP.2021 04:26:12

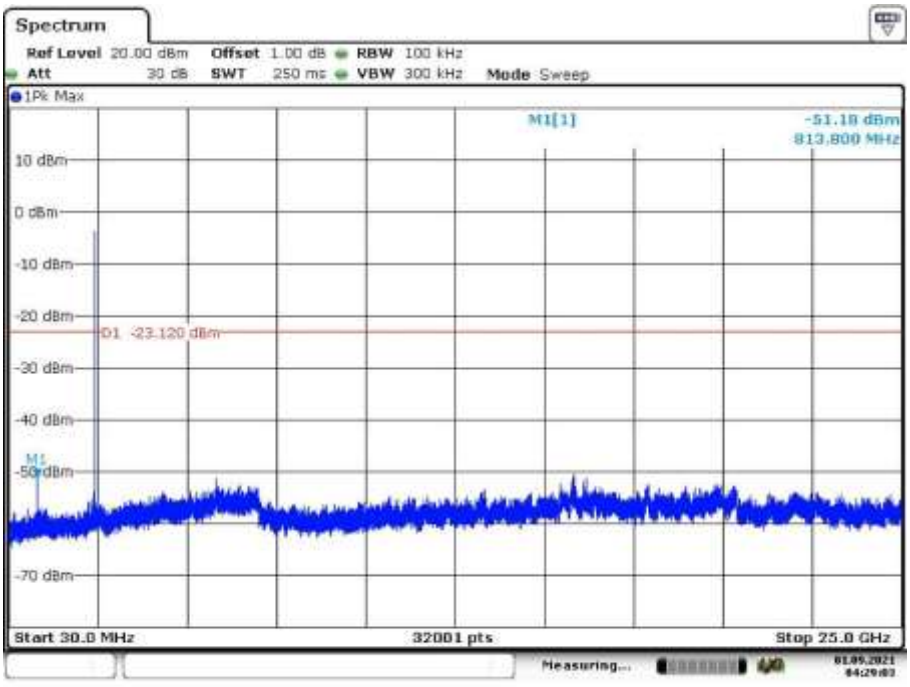


Date: 1.SEP.2021 04:27:37

Middle Channel:

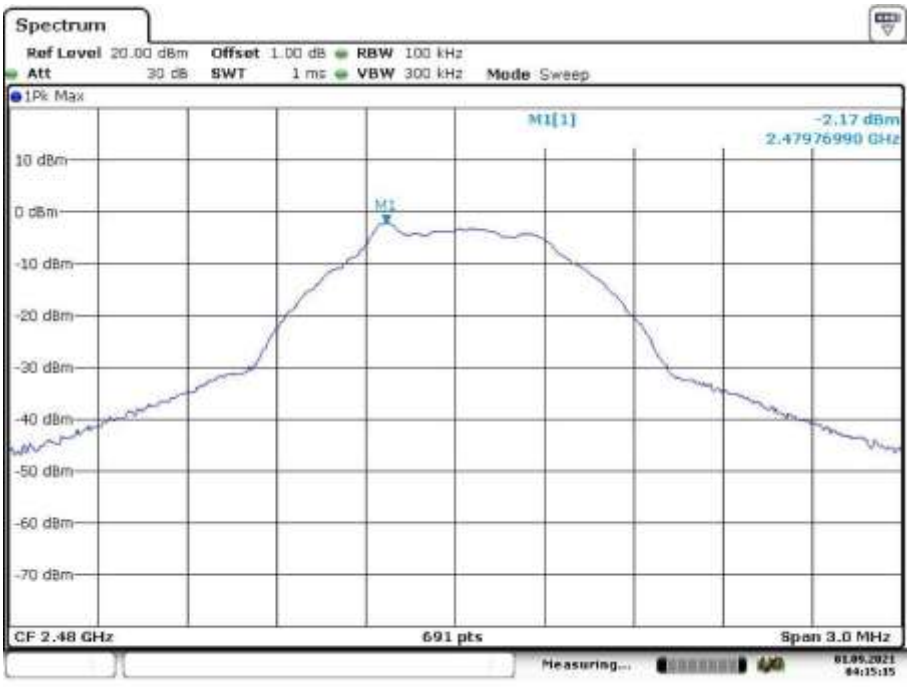


Date: 1.SEP.2021 04:28:20

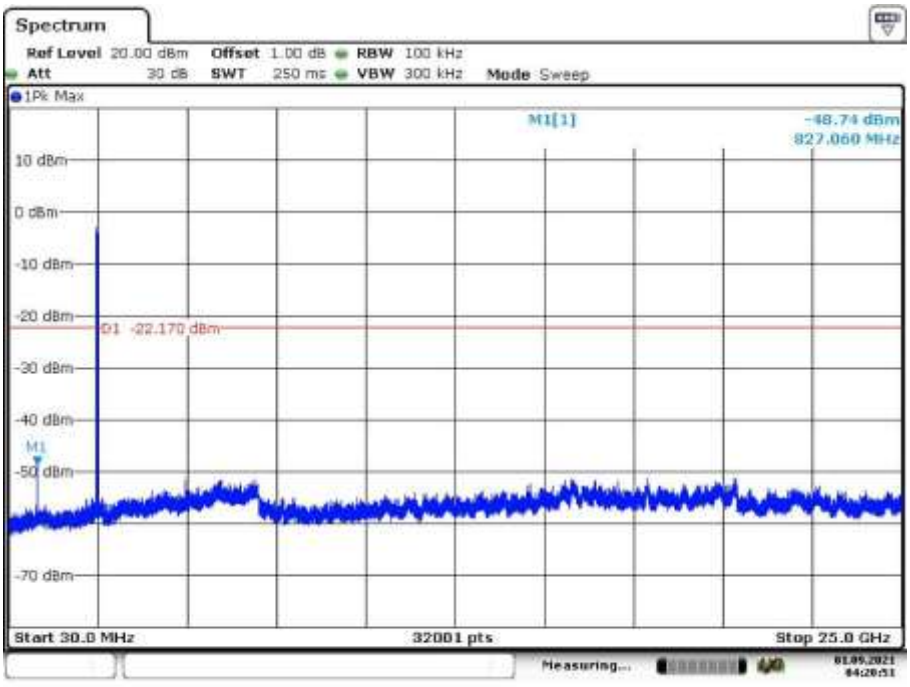


Date: 1.SEP.2021 04:29:04

High Channel:

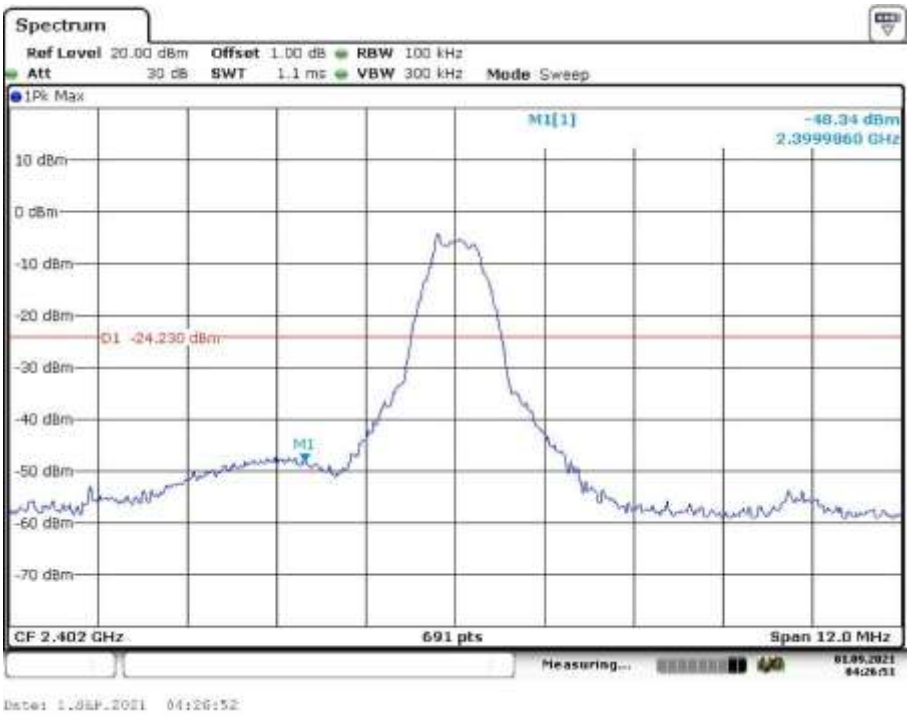


Date: 1.SEP.2021 04:15:16

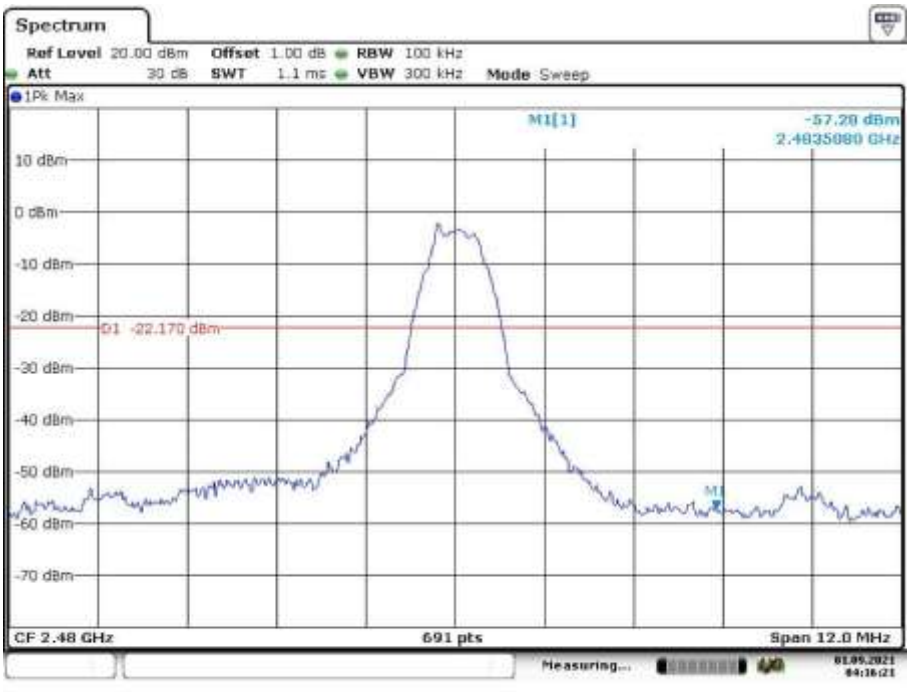


Date: 1.SEP.2021 04:20:52

Band Edge, Low Channel:



Band Edge, High Channel:



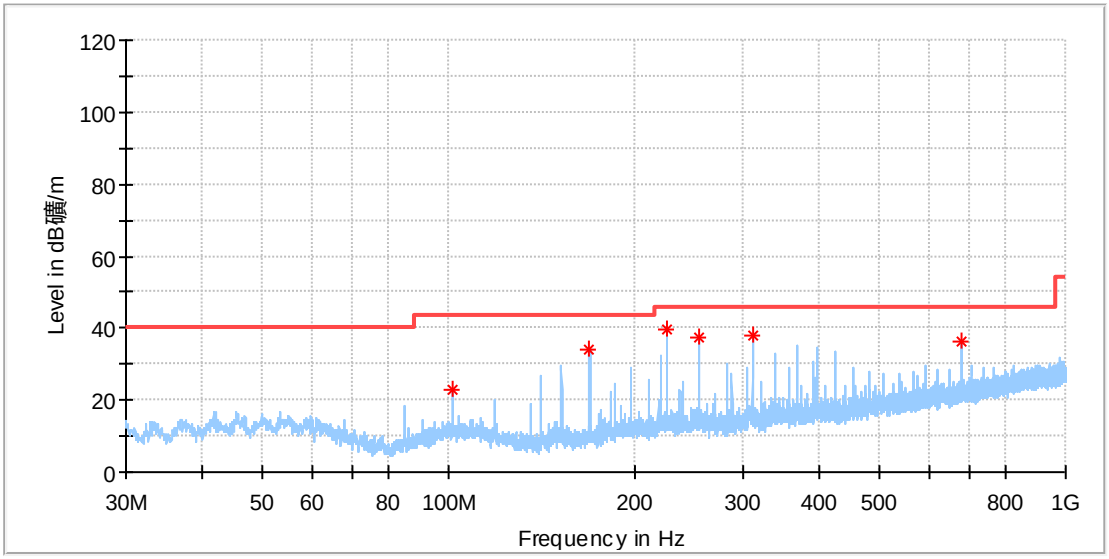
Appendix C.5: Test Results of Radiated Spurious Emissions

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 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz to 1GHz

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

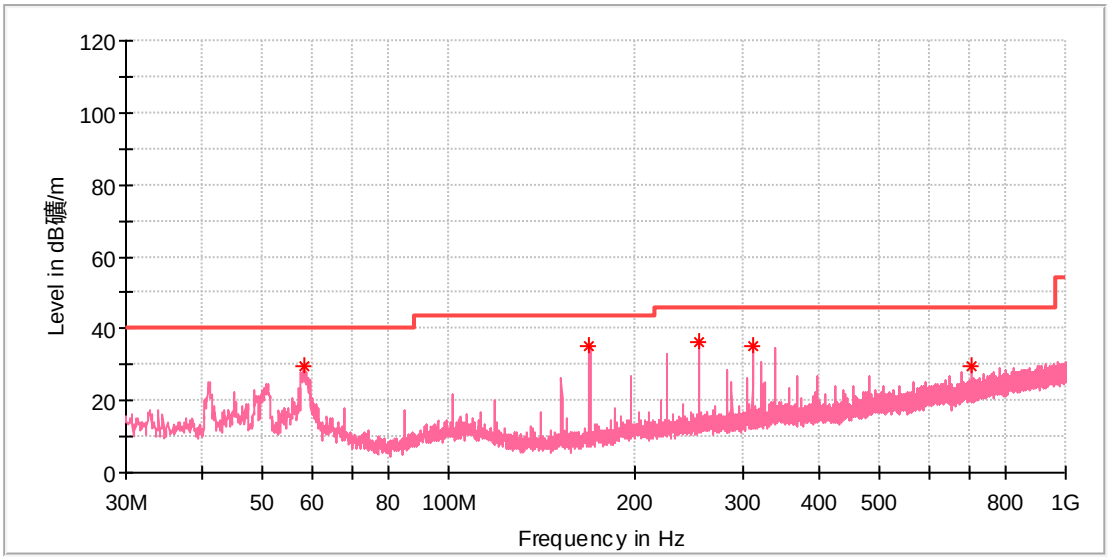
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
101.586000	22.65	43.50	20.85	100.0	H	314.0	-18.9
169.340500	34.14	43.50	9.36	100.0	H	331.0	-21.2
225.843000	39.45	46.00	6.55	100.0	H	172.0	-18.3
254.070000	37.48	46.00	8.52	100.0	H	197.0	-17.2
310.475500	37.91	46.00	8.09	100.0	H	189.0	-15.9
677.426500	36.02	46.00	9.98	100.0	H	134.0	-8.5

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

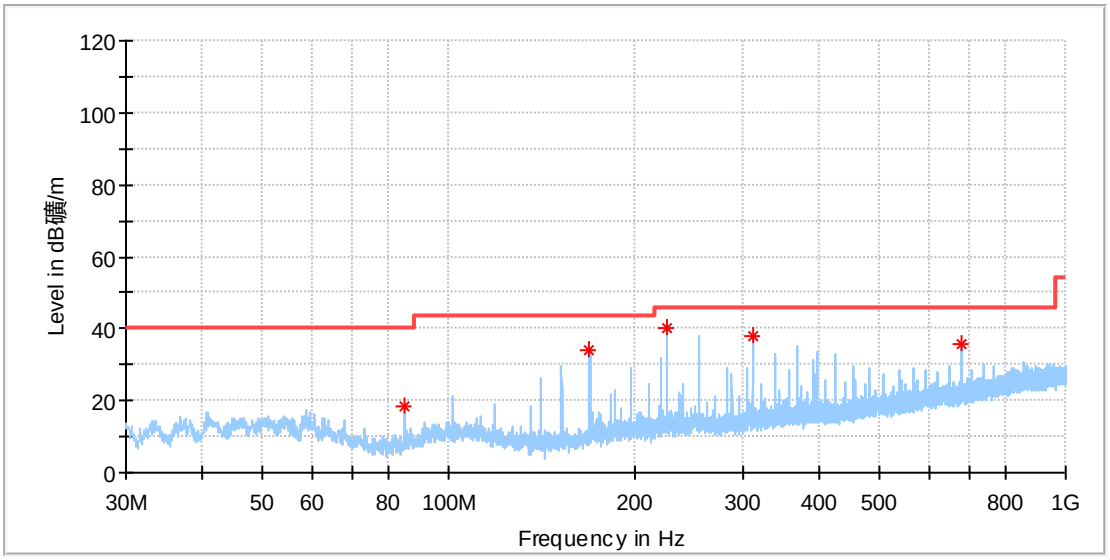
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.178500	29.76	40.00	10.24	100.0	V	112.0	-18.8
169.340500	35.24	43.50	8.26	100.0	V	4.0	-21.2
254.021500	36.19	46.00	9.81	100.0	V	18.0	-17.2
310.475500	35.16	46.00	10.84	100.0	V	297.0	-15.9
705.653500	29.69	46.00	16.31	100.0	V	349.0	-7.9

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

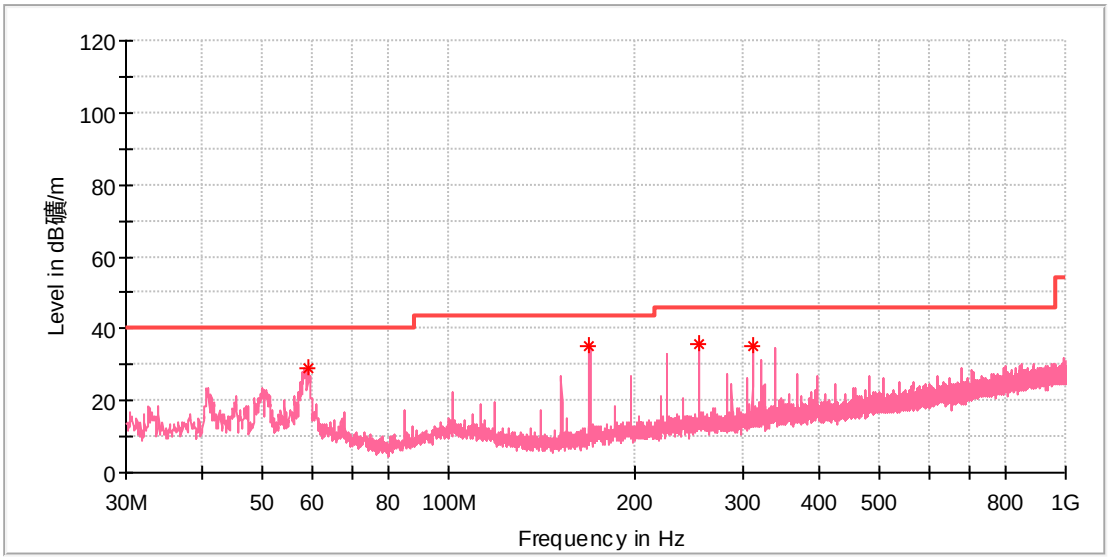
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
84.659500	18.56	40.00	21.44	100.0	H	285.0	-22.4
169.340500	33.78	43.50	9.72	100.0	H	338.0	-21.2
225.794500	39.98	46.00	6.02	100.0	H	174.0	-18.3
310.475500	37.93	46.00	8.07	100.0	H	191.0	-15.9
677.426500	35.79	46.00	10.21	100.0	H	81.0	-8.5

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
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)
59.391000	29.26	40.00	10.74	100.0	V	0.0	-18.9
169.340500	34.93	43.50	8.57	100.0	V	351.0	-21.2
254.021500	35.92	46.00	10.08	100.0	V	21.0	-17.2
310.524000	34.93	46.00	11.07	100.0	V	143.0	-15.9

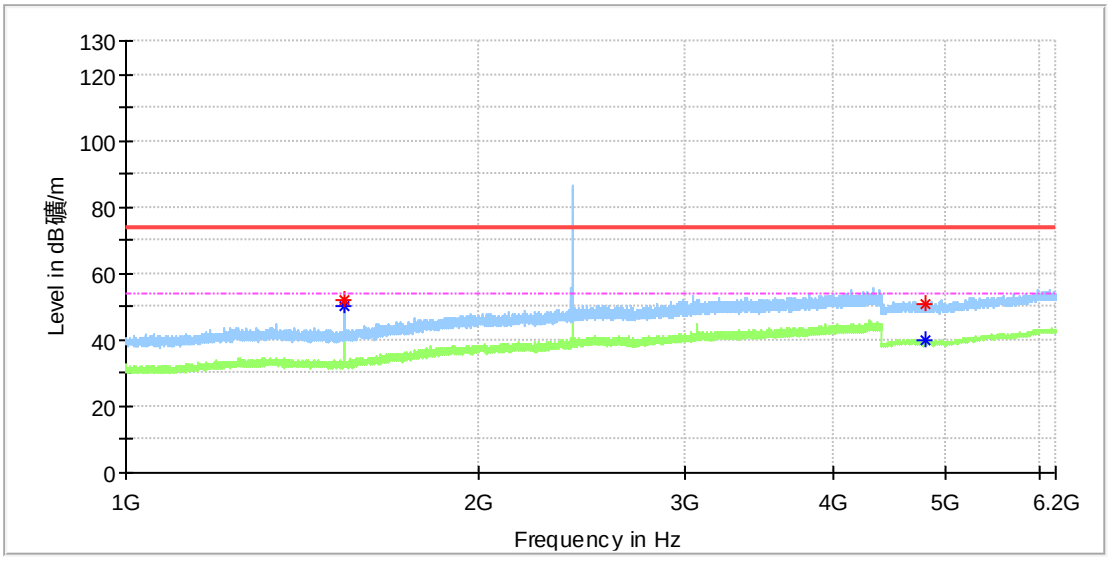
Final_Result

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 Bluetooth Fundamental.

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

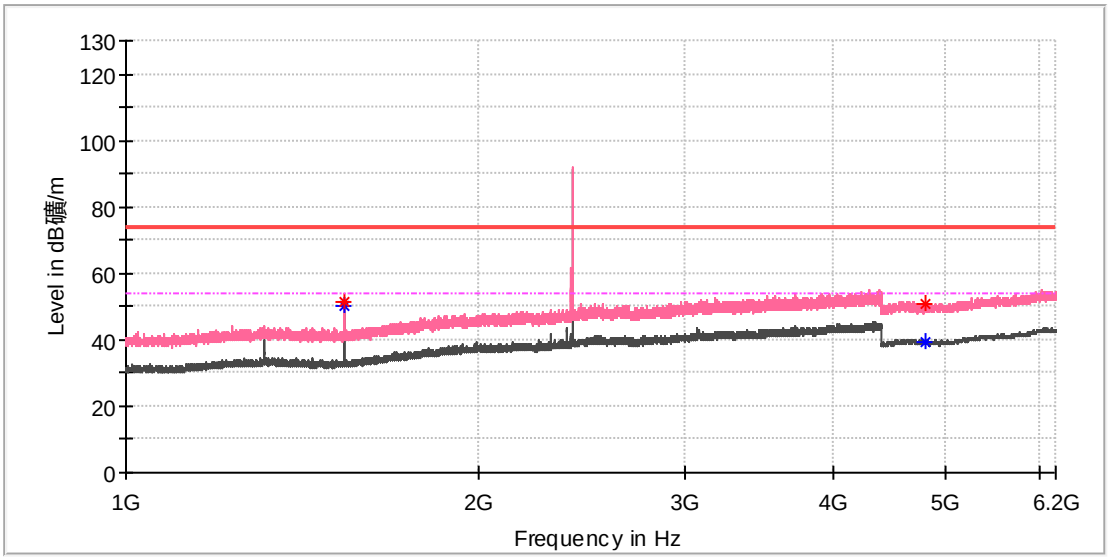
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.330000	51.88	---	74.00	22.12	100.0	H	67.0	1.4
1535.330000	---	50.00	54.00	4.00	100.0	H	67.0	1.4
4808.500000	50.51	---	74.00	23.49	100.0	H	231.0	11.8
4809.000000	---	39.78	54.00	14.22	100.0	H	112.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

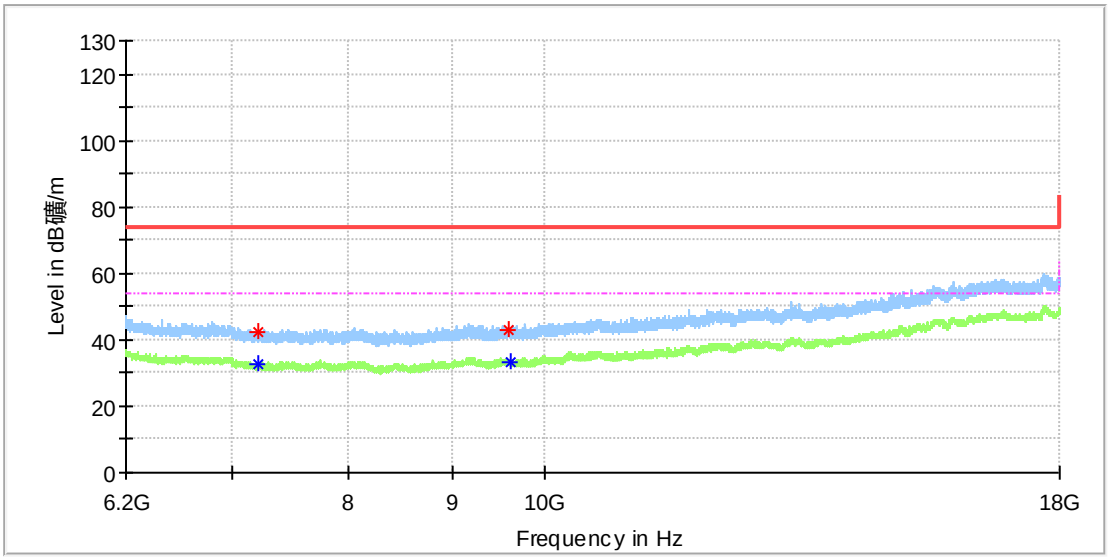
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.330000	51.68	---	74.00	22.32	100.0	V	131.0	1.4
1535.330000	---	50.12	54.00	3.88	100.0	V	131.0	1.4
4802.000000	---	39.52	54.00	14.48	100.0	V	322.0	11.8
4802.500000	50.55	---	74.00	23.45	100.0	V	0.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

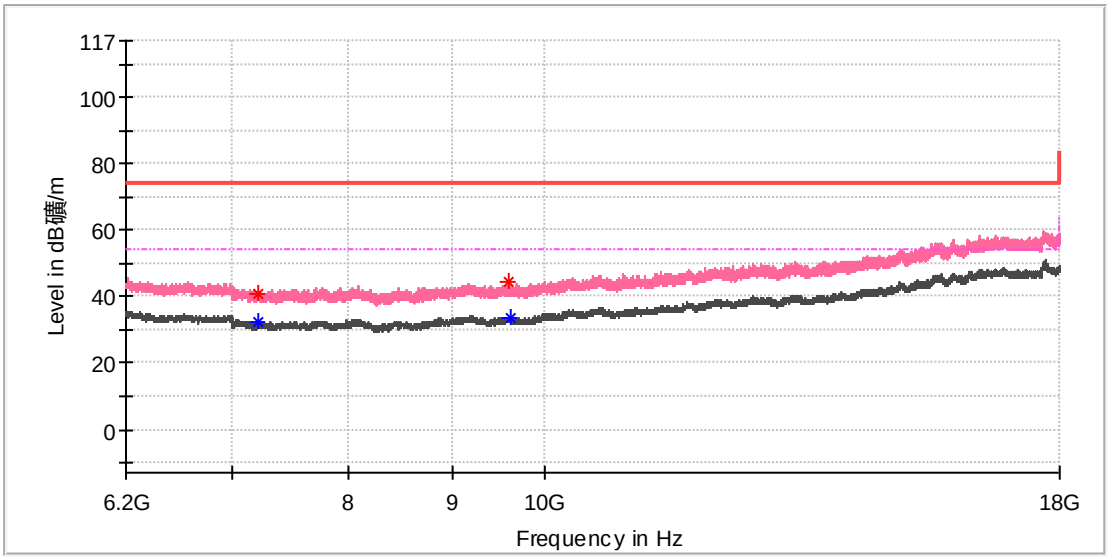
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	42.24	---	74.00	31.76	100.0	H	76.0	8.8
7212.341667	---	32.94	54.00	21.06	100.0	H	104.0	8.7
9603.808333	42.76	---	74.00	31.24	100.0	H	220.0	10.4
9609.708333	---	33.44	54.00	20.56	100.0	H	31.0	10.4

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
7206.933333	---	32.11	54.00	21.89	100.0	V	212.0	8.8
7215.291667	40.75	---	74.00	33.25	100.0	V	167.0	8.7
9596.925000	44.29	---	74.00	29.71	100.0	V	358.0	10.3
9612.166667	---	33.44	54.00	20.56	100.0	V	307.0	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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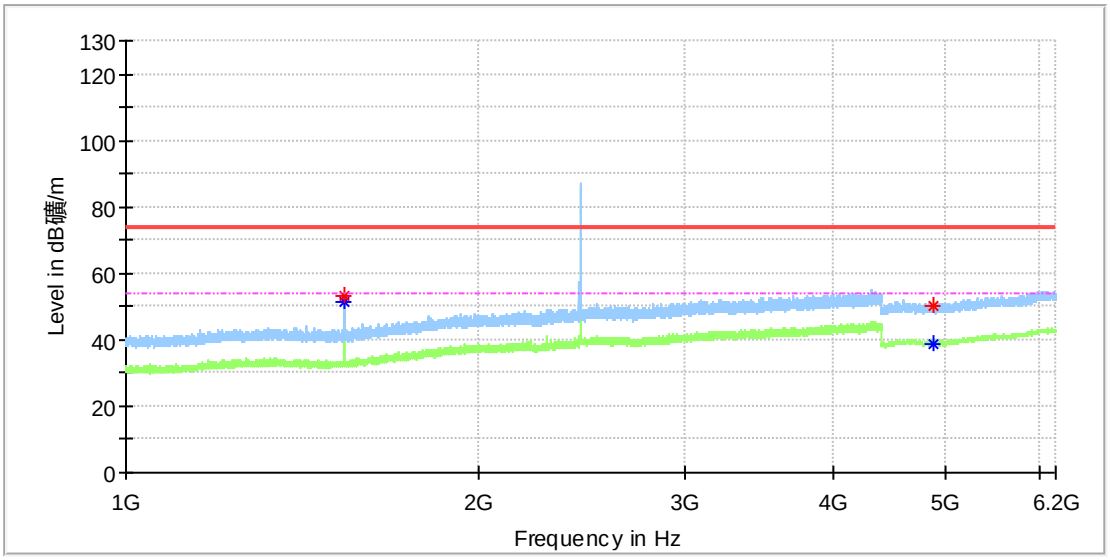
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
1535.330000	53.40	---	74.00	20.60	100.0	H	353.0	1.4
1535.330000	---	51.68	54.00	2.32	100.0	H	353.0	1.4
4877.500000	50.16	---	74.00	23.84	100.0	H	166.0	11.8
4878.000000	---	38.80	54.00	15.20	100.0	H	294.0	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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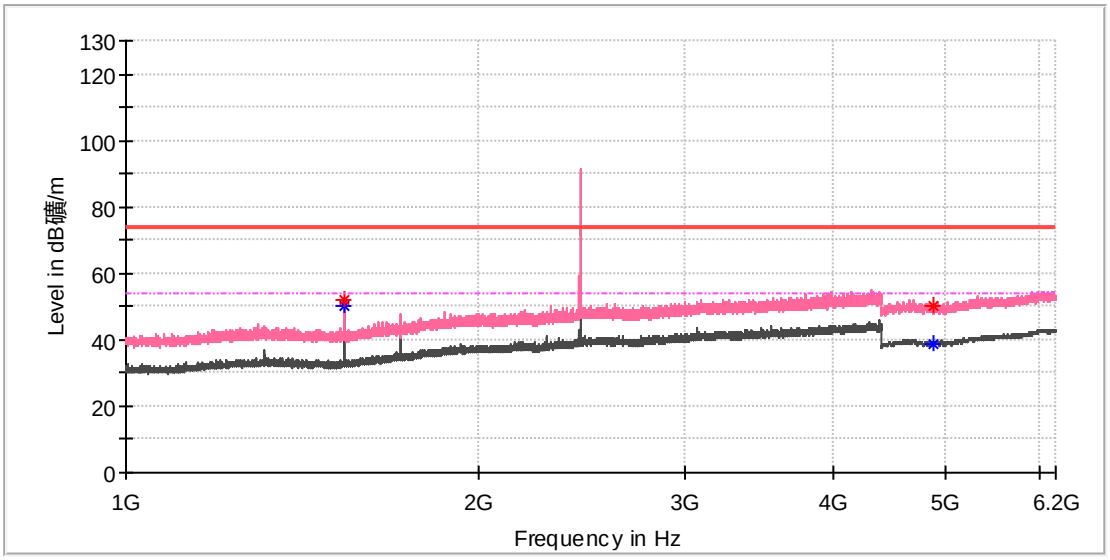
EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

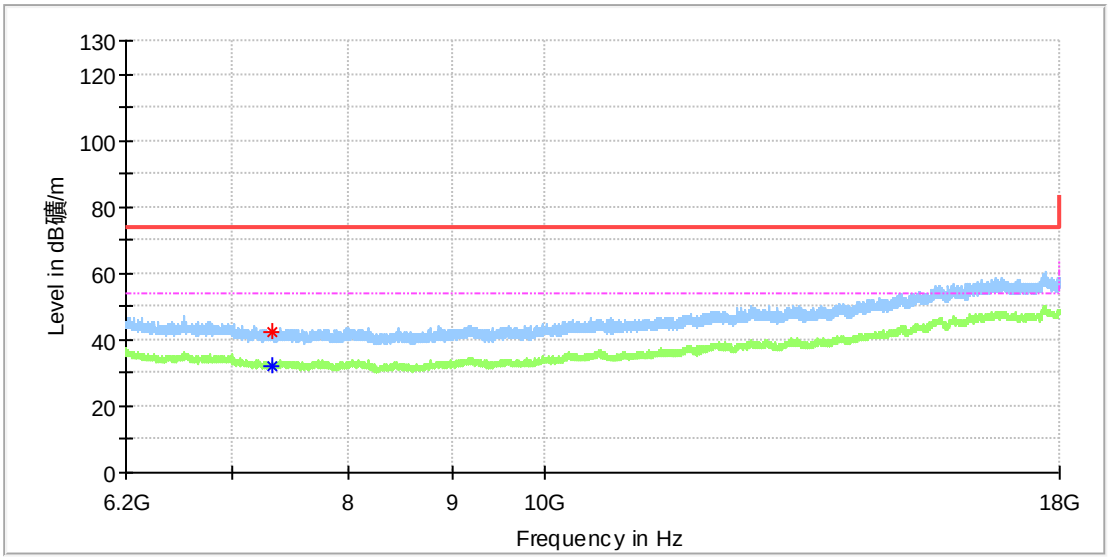
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.160000	51.95	---	74.00	22.05	100.0	V	139.0	1.4
1535.500000	---	50.03	54.00	3.97	100.0	V	139.0	1.4
4881.500000	49.94	---	74.00	24.06	100.0	V	48.0	11.8
4883.500000	---	38.79	54.00	15.21	100.0	V	150.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

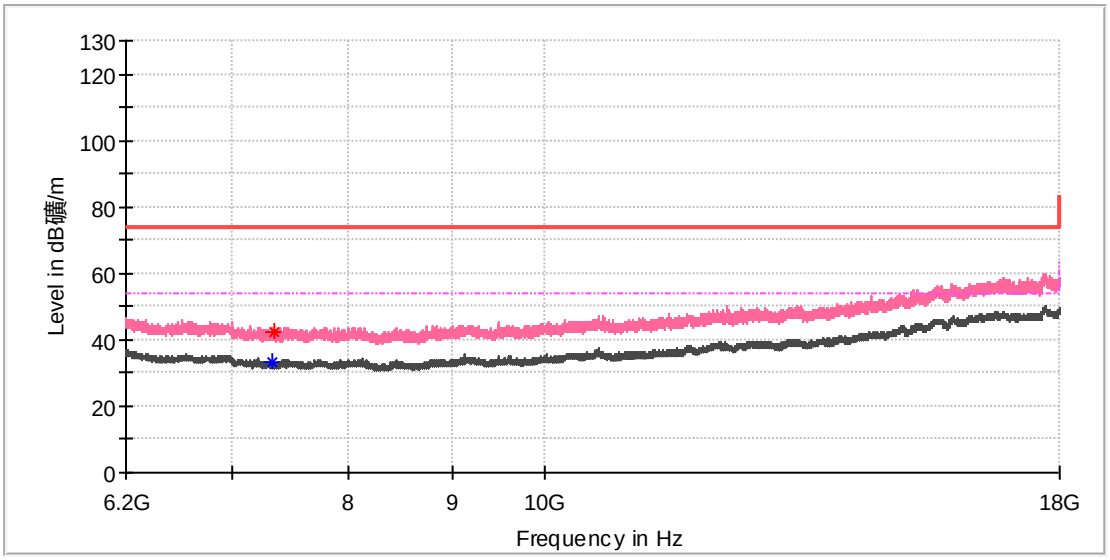
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7325.916667	42.12	---	74.00	31.88	100.0	H	0.0	8.2
7329.358333	---	32.10	54.00	21.90	100.0	H	110.0	8.1

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Mid channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

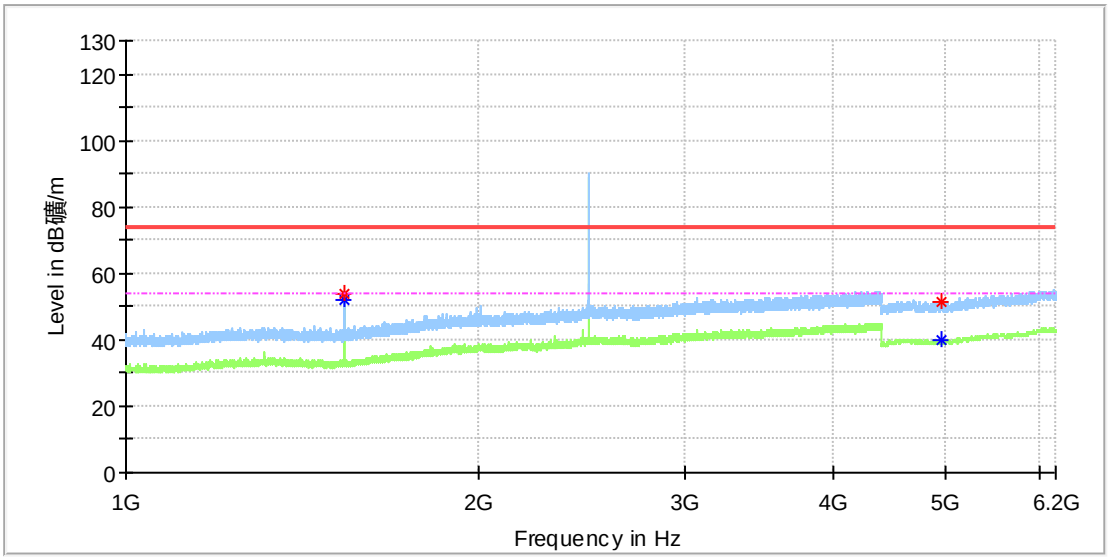
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7328.375000	---	33.08	54.00	20.92	100.0	V	56.0	8.1
7335.750000	42.39	---	74.00	31.61	100.0	V	85.0	8.1

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

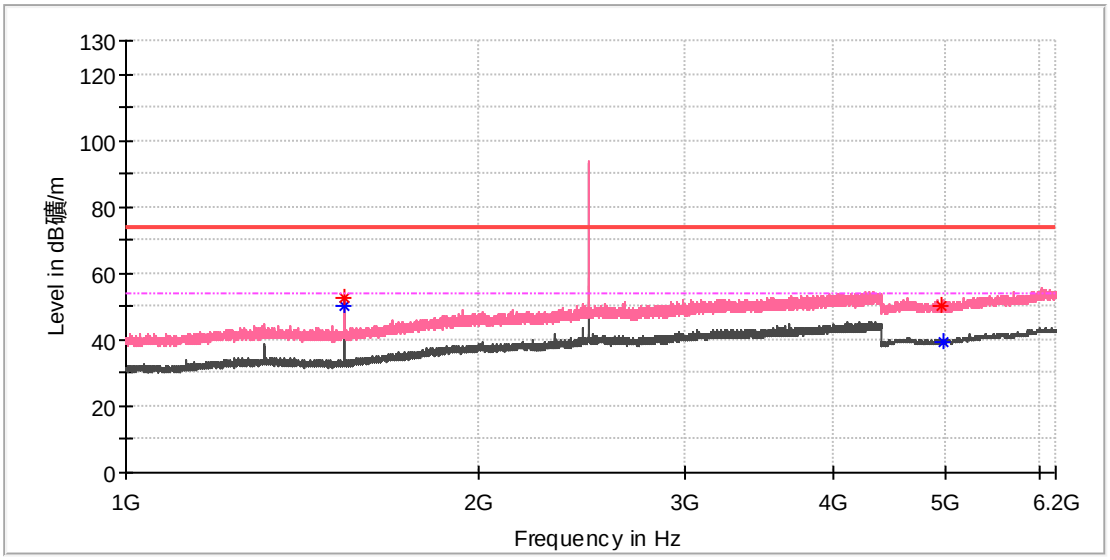
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.330000	53.70	---	74.00	20.30	100.0	H	358.0	1.4
1535.500000	---	52.05	54.00	1.95	100.0	H	350.0	1.4
4955.500000	51.26	---	74.00	22.74	100.0	H	121.0	11.8
4955.500000	---	40.04	54.00	13.96	100.0	H	121.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

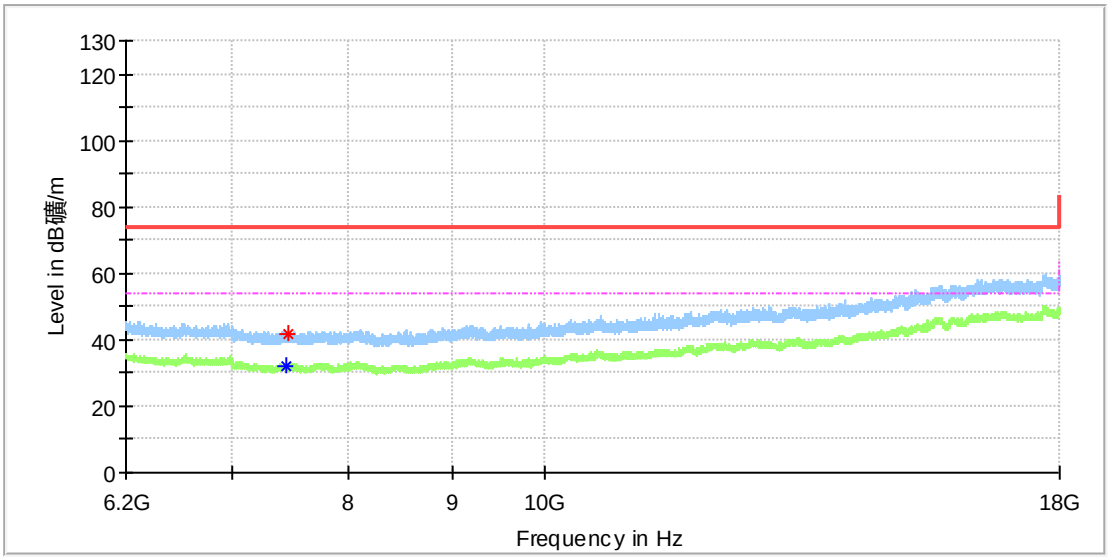
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1535.330000	52.37	---	74.00	21.63	100.0	V	128.0	1.4
1535.500000	---	50.28	54.00	3.72	100.0	V	128.0	1.4
4956.000000	50.47	---	74.00	23.53	100.0	V	9.0	11.8
4965.500000	---	39.58	54.00	14.42	100.0	V	73.0	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:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

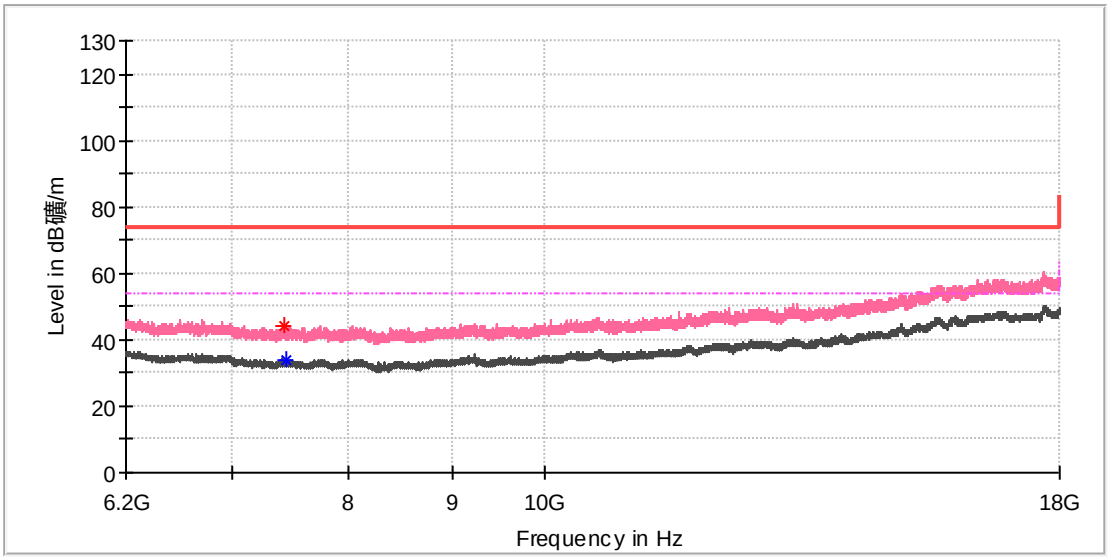
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7448.341667	---	32.15	54.00	21.85	100.0	H	43.0	8.5
7455.716667	41.97	---	74.00	32.03	100.0	H	18.0	8.5

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
7433.100000	44.43	---	74.00	29.57	100.0	V	252.0	8.4
7439.491667	---	33.93	54.00	20.07	100.0	V	358.0	8.4

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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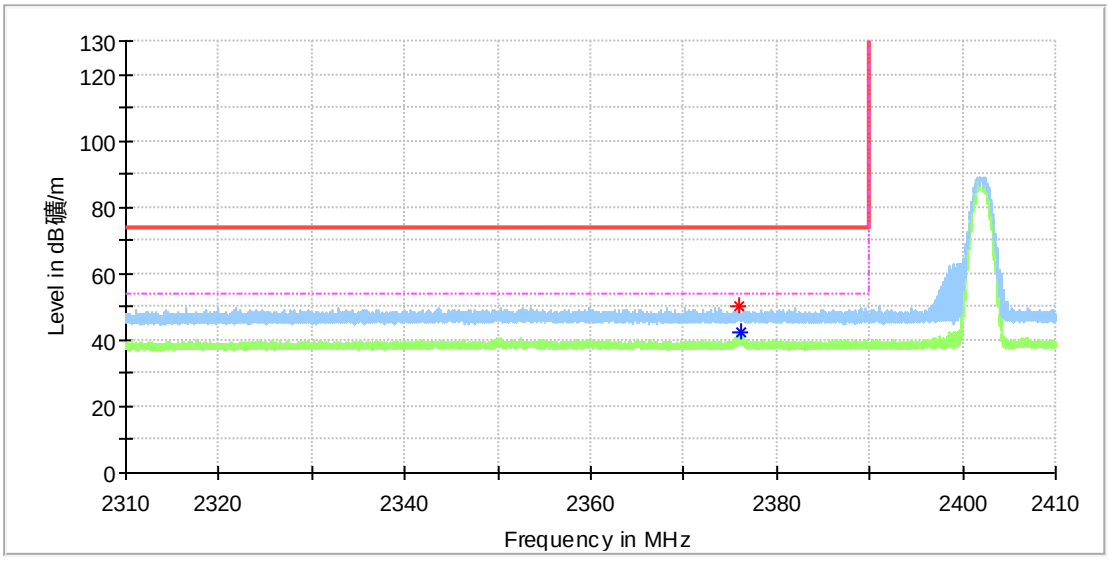
Appendix C.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

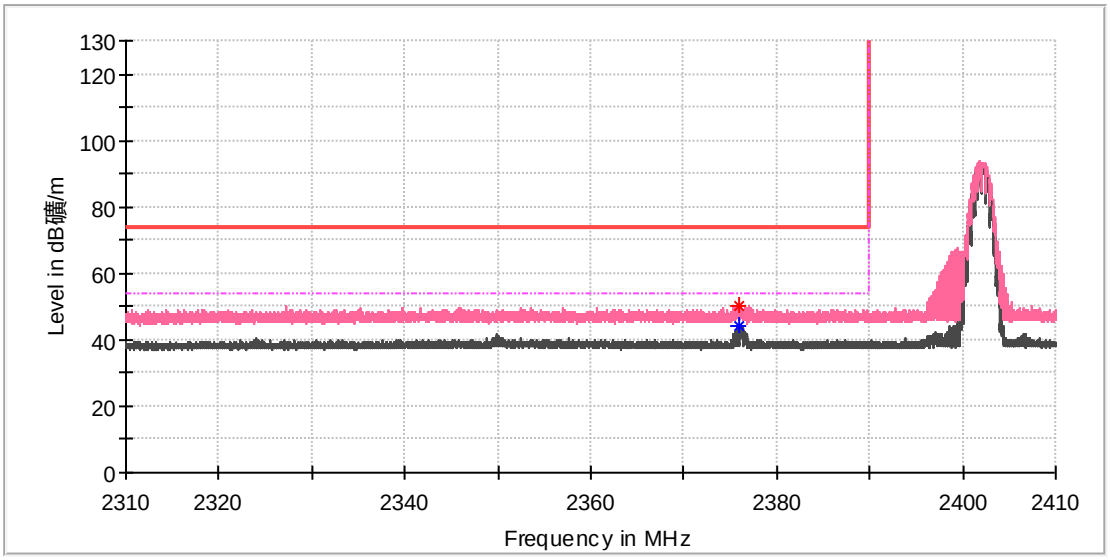
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.960000	50.06	---	74.00	23.94	100.0	H	113.0	6.9
2376.085000	---	42.21	54.00	11.79	100.0	H	284.0	6.9

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_Low channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

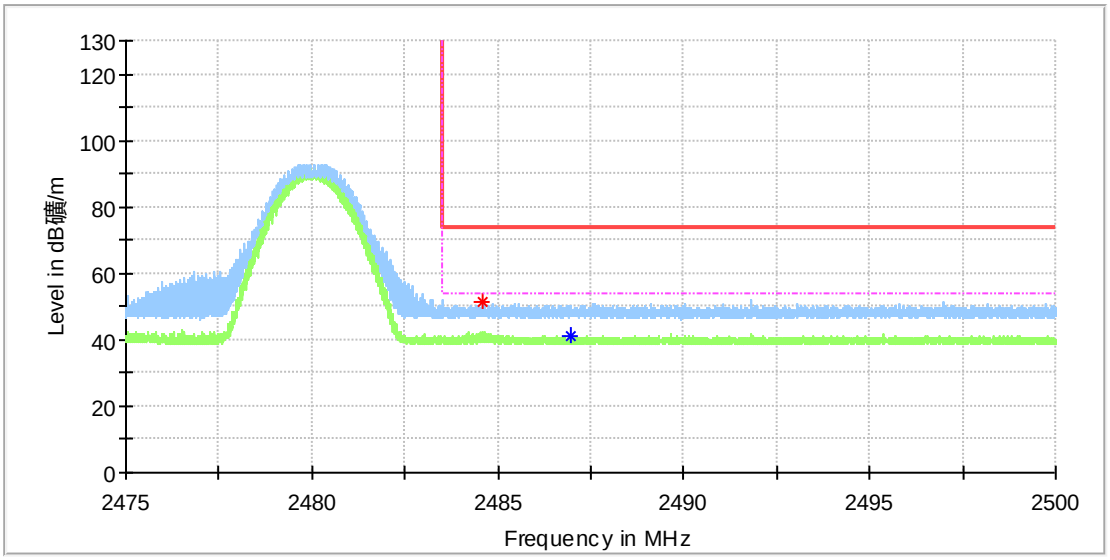
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.905000	50.18	---	74.00	23.82	100.0	V	281.0	6.9
2375.910000	---	44.07	54.00	9.93	100.0	V	281.0	6.9

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

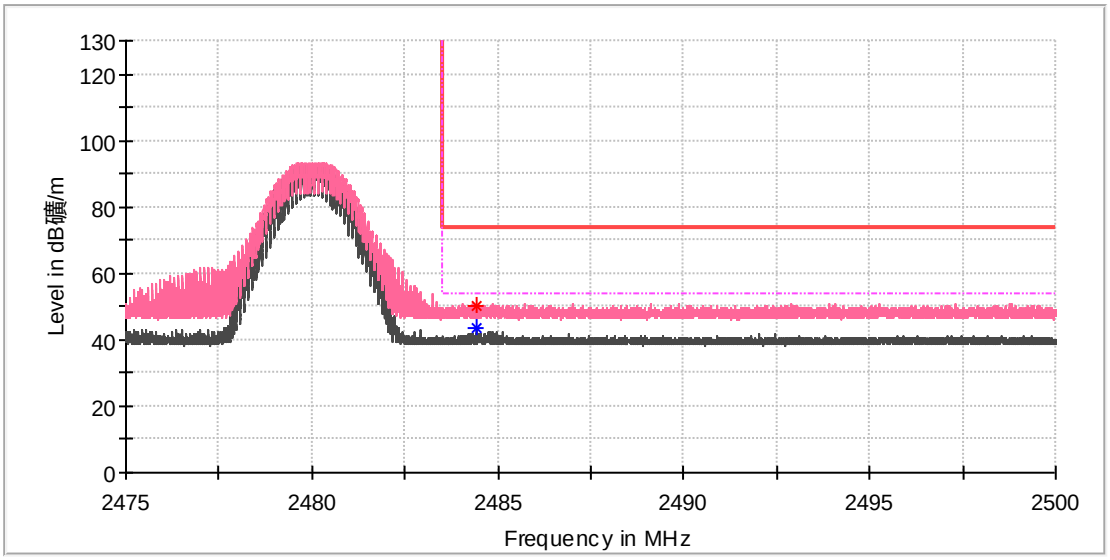
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.615000	51.11	---	74.00	22.89	100.0	H	325.0	7.4
2486.943750	---	41.23	54.00	12.77	100.0	H	260.0	7.4

Final_Result

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

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model:	NS-BBBT20
Test Mode:	BLE 1M_High channel
Test Voltage::	Fully charged battery
Remark:	Temp 22 Humi:50%
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)
2484.422500	---	43.38	54.00	10.62	100.0	V	294.0	7.4
2484.430000	50.30	---	74.00	23.70	100.0	V	283.0	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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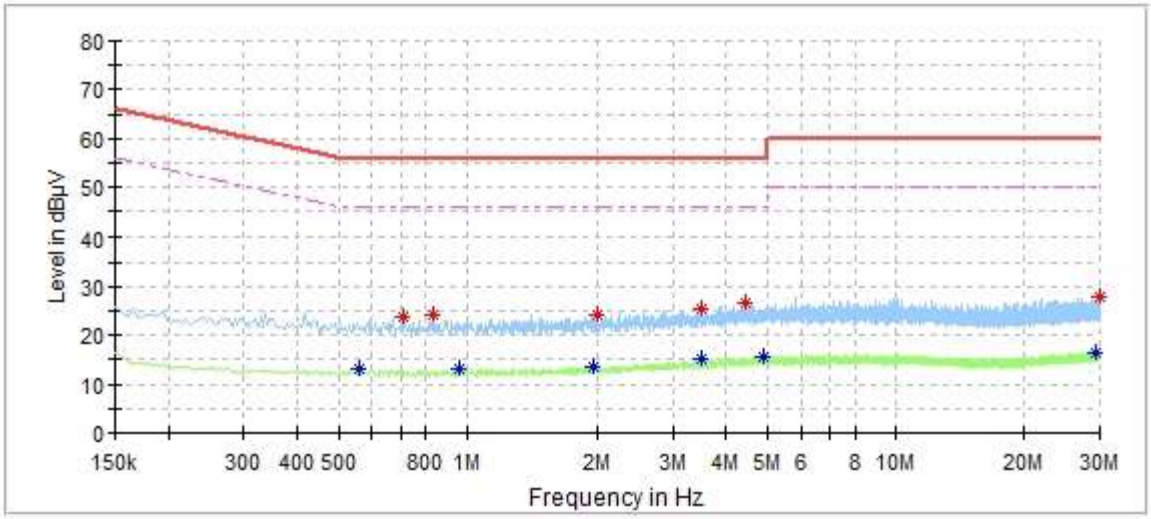
Appendix C.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model	NS-BBBT20
Order No:	168330317 20
Test Mode:	ON,BT playing
Test Voltage:	AC 120V/60Hz
Test By:	Charlie Zha
Review By:	Gary Chen
Remark:	SR1

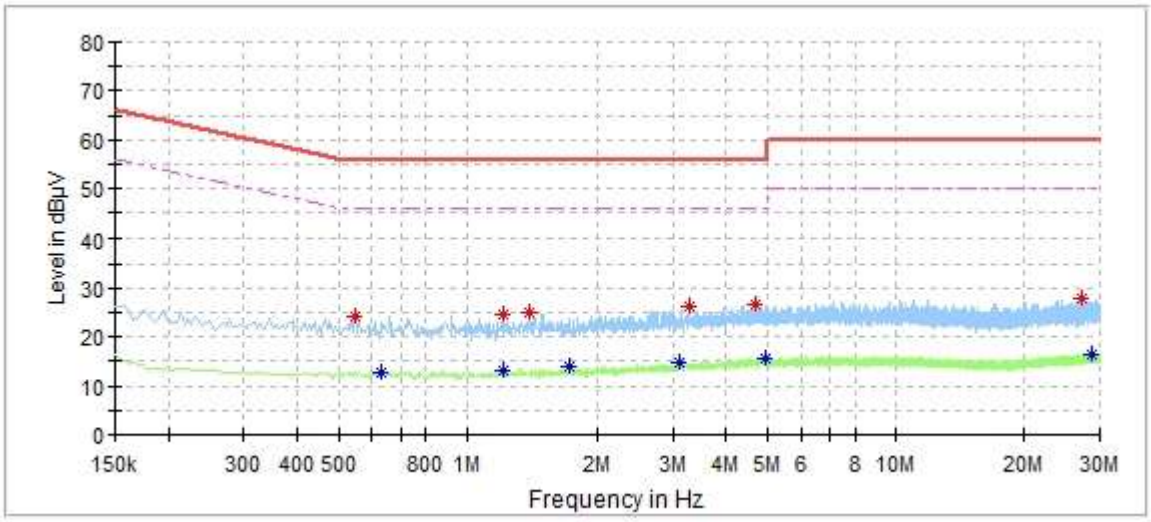


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.560000	---	12.96	46.00	33.04	L1	9.7
0.708000	23.86	---	56.00	32.14	L1	9.7
0.836000	24.17	---	56.00	31.83	L1	9.7
0.960000	---	13.05	46.00	32.95	L1	9.7
1.964000	---	13.53	46.00	32.47	L1	9.7
1.996000	24.36	---	56.00	31.64	L1	9.7
3.492000	---	15.04	46.00	30.96	L1	9.8
3.492000	25.45	---	56.00	30.55	L1	9.8
4.432000	26.52	---	56.00	29.48	L1	9.8
4.896000	---	15.47	46.00	30.53	L1	9.9
29.392000	---	16.53	50.00	33.47	L1	10.4
29.840000	27.78	---	60.00	32.22	L1	10.4

EUT Information

EUT Name:	Multi-Function Stereo Boombox with Bluetooth
Model	NS-BBBT20
Order No:	168330317 20
Test Mode:	ON,BT playing
Test Voltage:	AC 120V/60Hz
Test By:	Charlie Zha
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.548000	24.25	---	56.00	31.75	N	9.7
0.632000	---	12.87	46.00	33.13	N	9.7
1.220000	24.42	---	56.00	31.58	N	9.7
1.220000	---	13.06	46.00	32.94	N	9.7
1.396000	25.04	---	56.00	30.96	N	9.7
1.716000	---	13.85	46.00	32.15	N	9.7
3.112000	---	14.87	46.00	31.13	N	9.8
3.284000	26.35	---	56.00	29.65	N	9.8
4.708000	26.55	---	56.00	29.45	N	9.9
4.928000	---	15.58	46.00	30.42	N	9.9
27.208000	27.86	---	60.00	32.14	N	10.5
28.884000	---	16.46	50.00	33.54	N	10.4