

Appendix A: Test Results of Bluetooth BR & EDR

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Appendix A.1: Test Results of 99% Bandwidth

BR mode (DH5)

Occupied Channel Bandwidth 99% (2402 MHz)

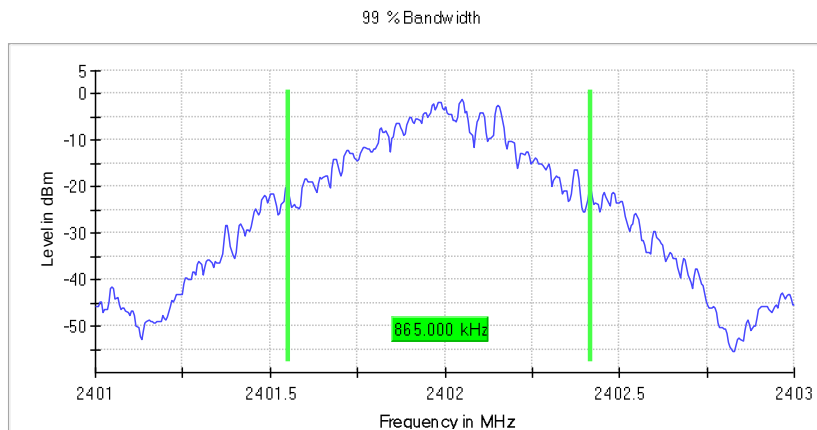
RBW 30KHz

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.865000	---	---	2401.552500	2402.417500

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

DUT Frequency (MHz)	Result
2402.000000	PASS



Occupied Channel Bandwidth 99% (2441 MHz)
RBW 30KHz

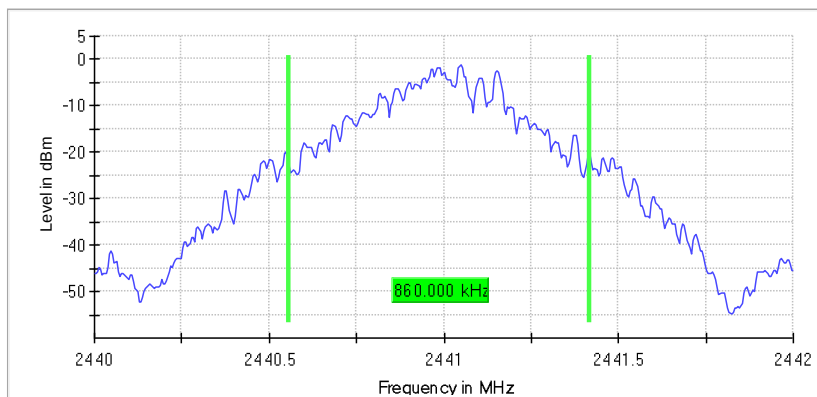
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.860000	---	---	2440.557500	2441.417500

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

DUT Frequency (MHz)	Result
2441.000000	PASS

99 % Bandwidth



Occupied Channel Bandwidth 99% (2480 MHz)
RBW 30KHz

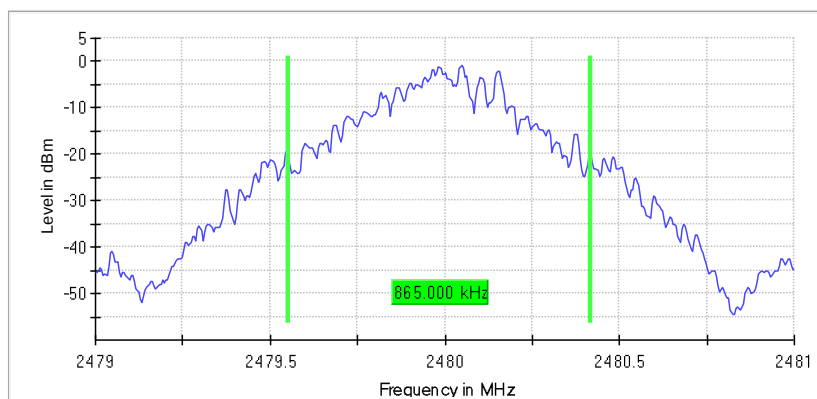
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.865000	---	---	2479.552500	2480.417500

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

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



EDR mode (3-DH5)

Occupied Channel Bandwidth 99% (2402 MHz) RBW 30KHz

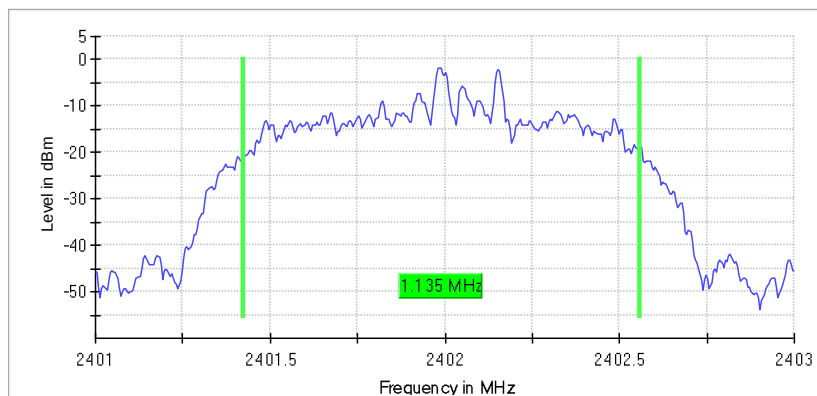
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.135000	---	---	2401.422500	2402.557500

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

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Occupied Channel Bandwidth 99% (2441 MHz)

RBW 30KHz

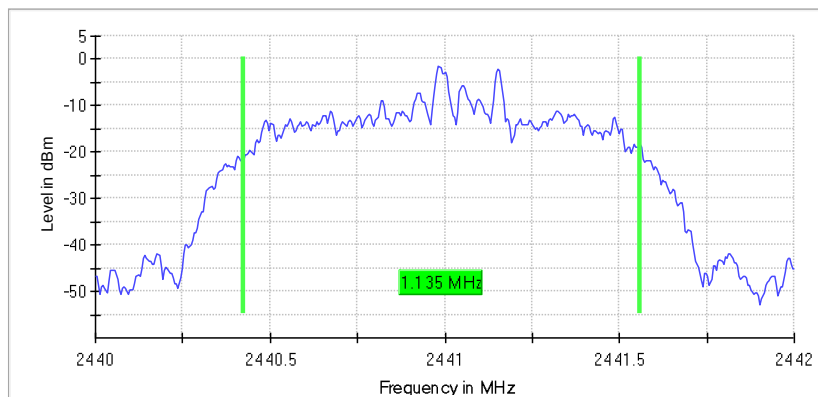
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.135000	---	---	2440.422500	2441.557500

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

DUT Frequency (MHz)	Result
2441.000000	PASS

99 % Bandwidth



Occupied Channel Bandwidth 99% (2480 MHz)
RBW 30KHz

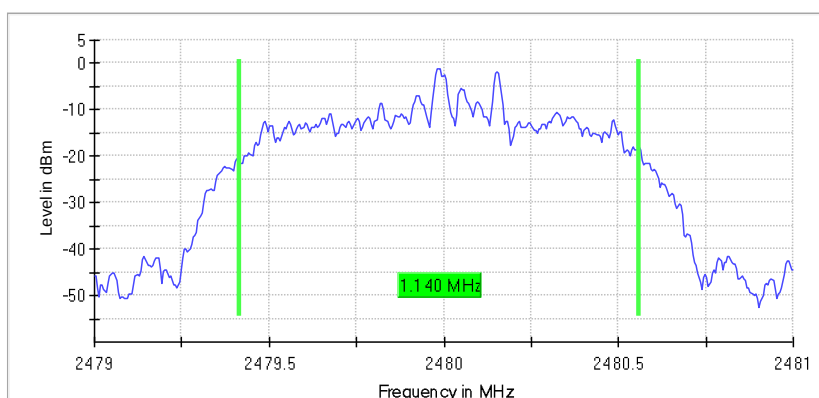
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.140000	---	---	2479.417500	2480.557500

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

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Appendix A.2: Test Results of 20dB Bandwidth

BR mode (DH5)

Emission Bandwidth 20 dB (2402 MHz)

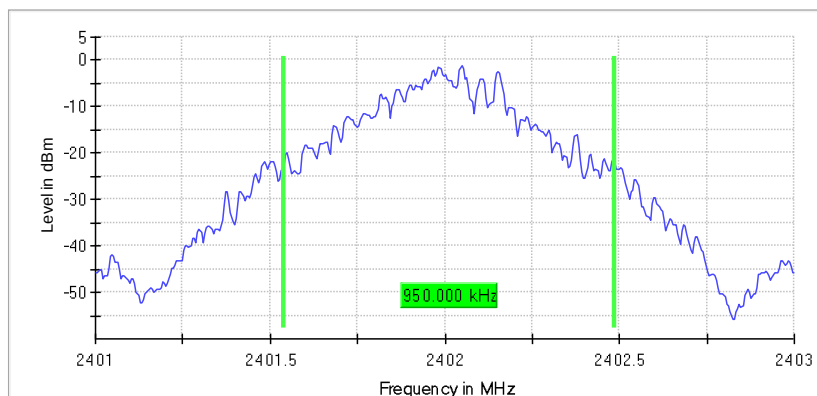
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.950000	---	---	2401.537500	2402.487500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-1.3	PASS

20 dB Bandwidth



Emission Bandwidth 20 dB (2441 MHz)

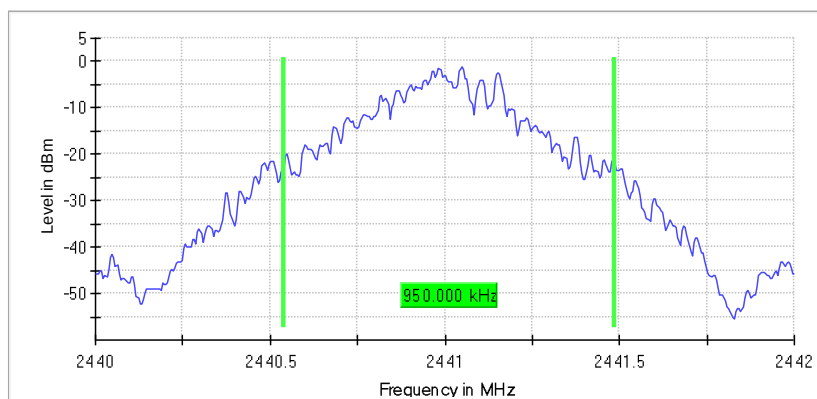
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.950000	---	---	2440.537500	2441.487500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-1.2	PASS

20 dB Bandwidth



Emission Bandwidth 20 dB (2480 MHz)

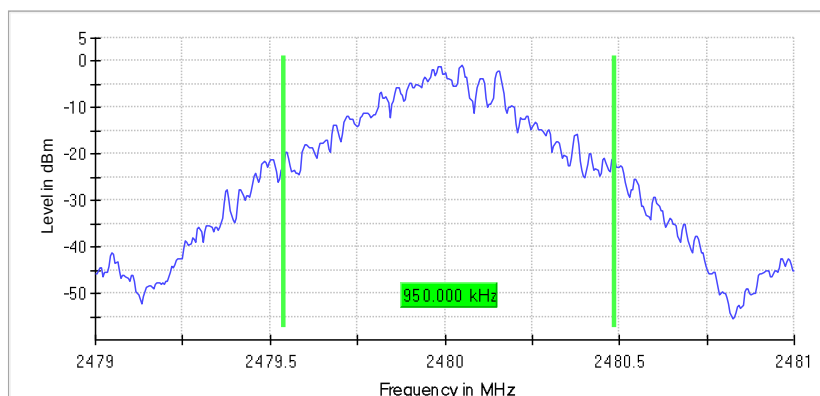
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.950000	---	---	2479.537500	2480.487500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-0.8	PASS

20 dB Bandwidth



EDR mode (3-DH5)

Emission Bandwidth 20 dB (2402 MHz)

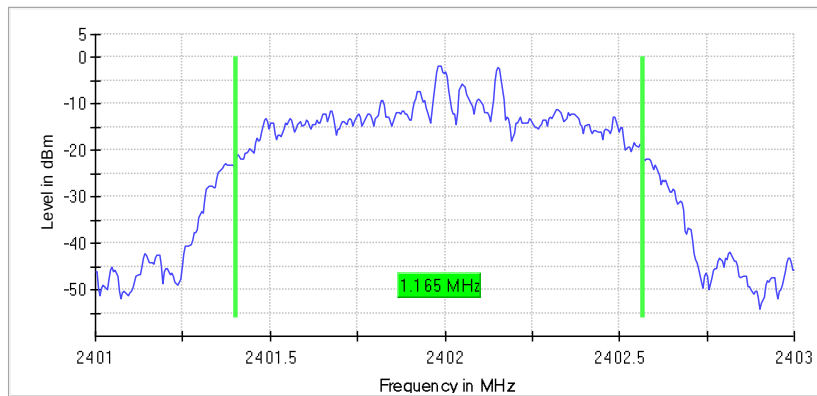
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.165000	---	---	2401.402500	2402.567500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-1.7	PASS

20 dB Bandwidth



Emission Bandwidth 20 dB (2441 MHz)

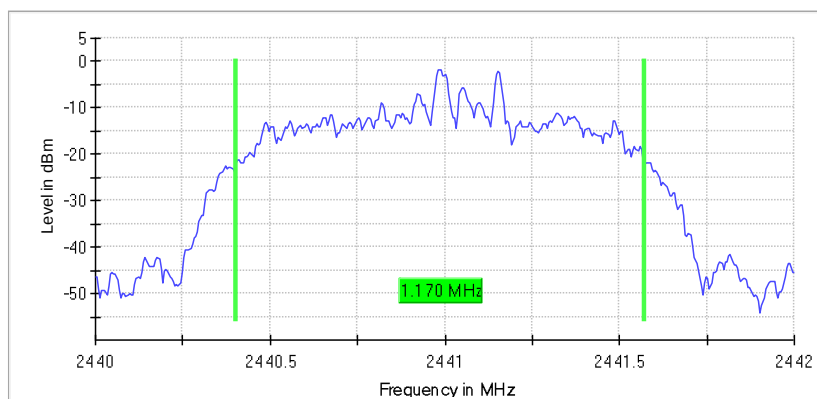
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.170000	---	---	2440.402500	2441.572500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-1.7	PASS

20 dB Bandwidth



Emission Bandwidth 20 dB (2480 MHz)

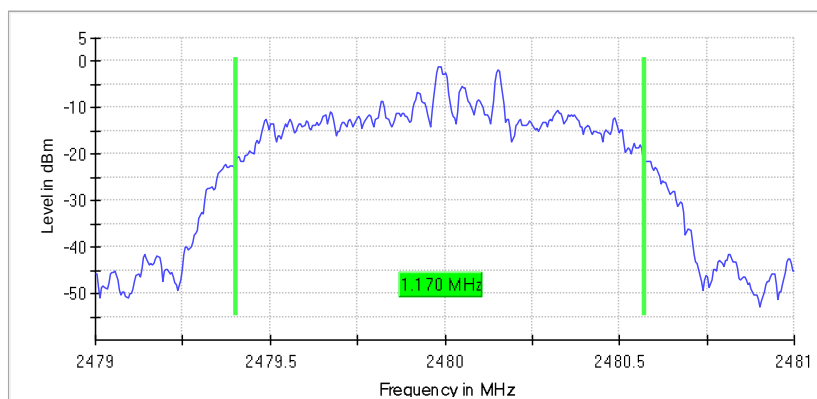
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.170000	---	---	2479.402500	2480.572500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

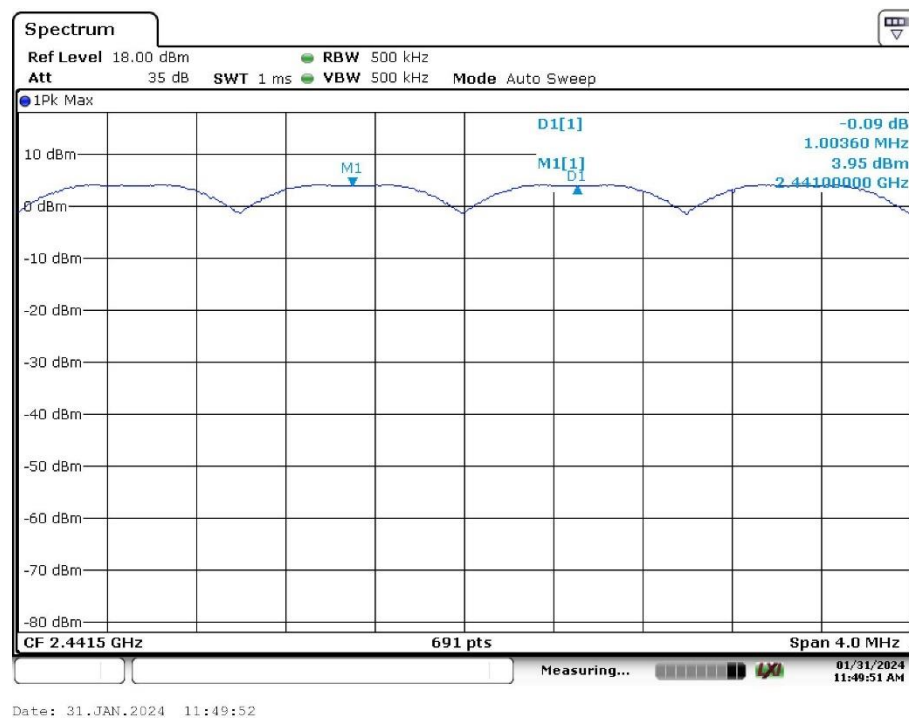
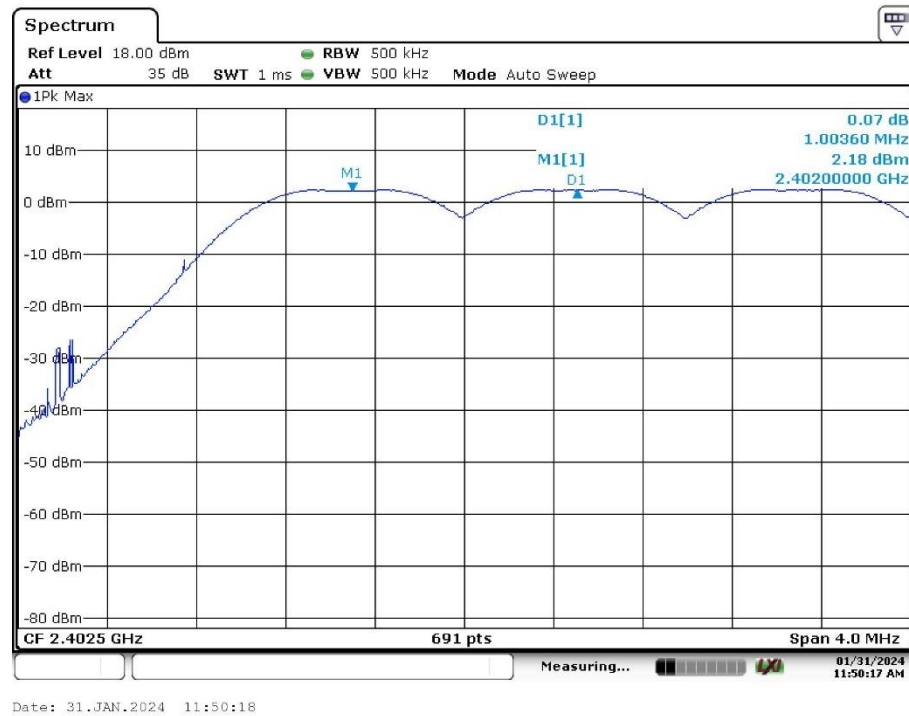
DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-1.2	PASS

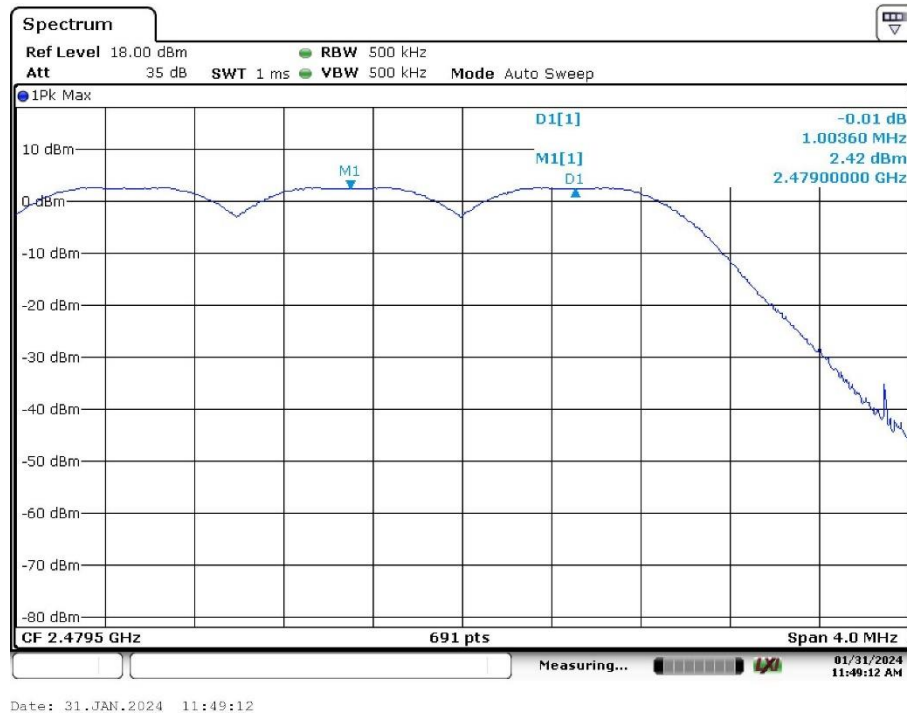
20 dB Bandwidth



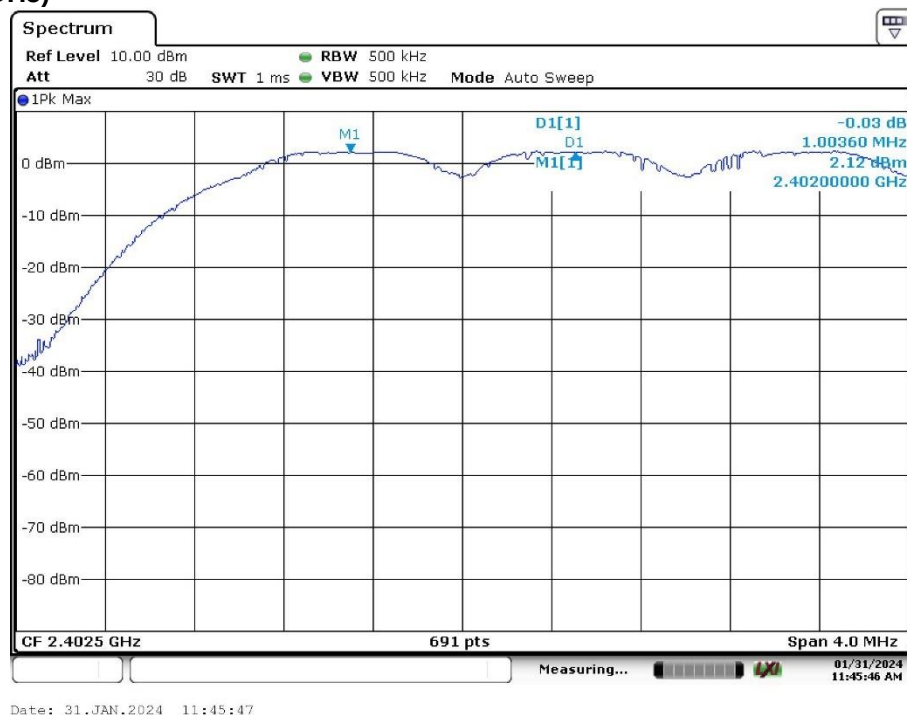
Appendix A.3: Test Results of Carrier Frequency Separation

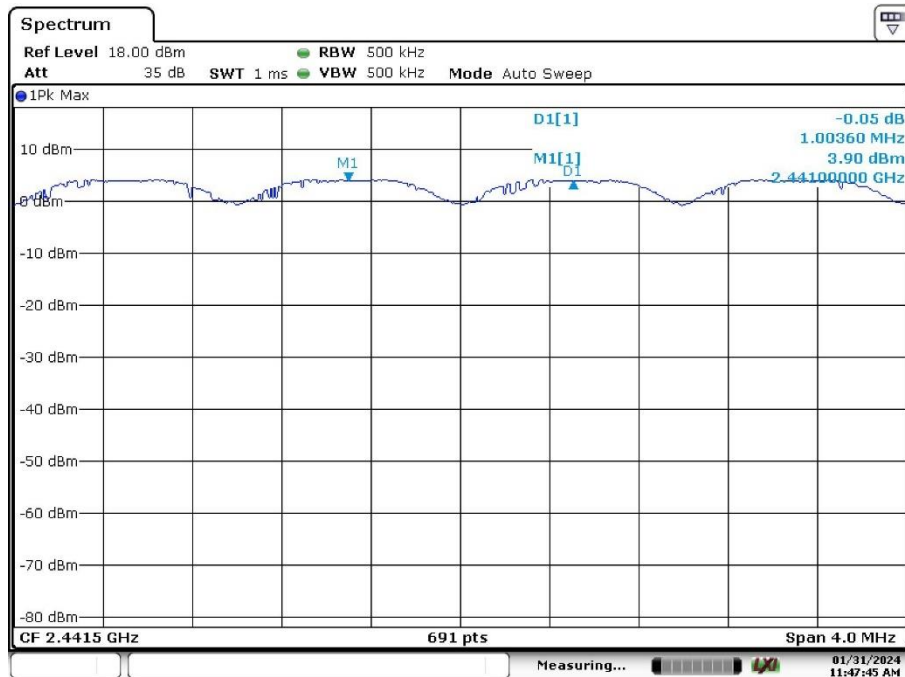
BR mode (DH5)



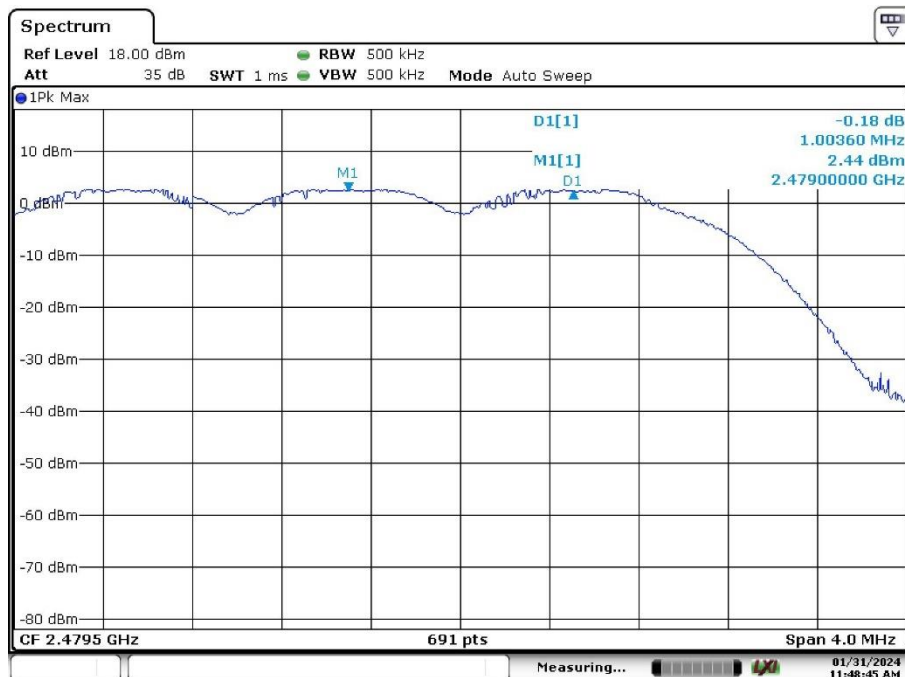


EDR mode (3-DH5)





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Appendix A.4: Test Results of Number of Hopping Frequency

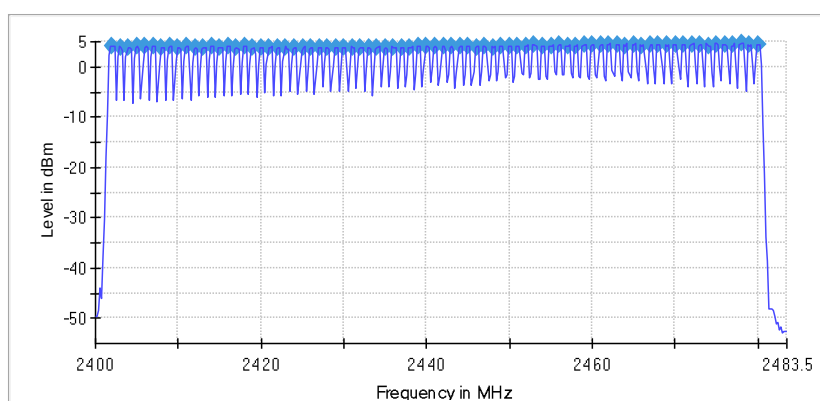
BR mode (DH5)

Hopping Frequencies

Channels

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



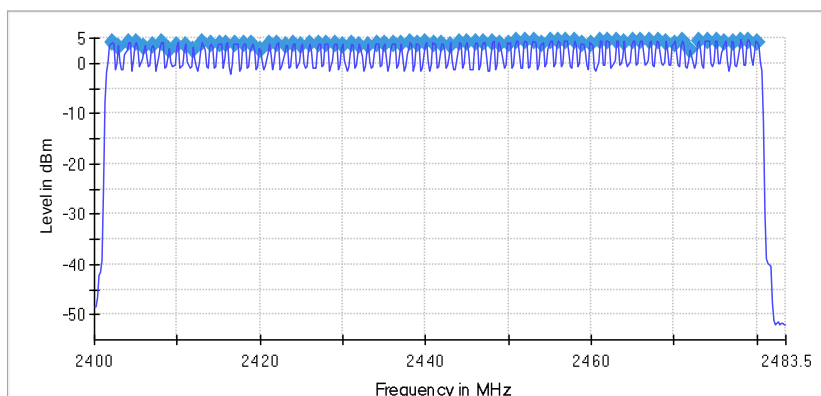
EDR mode (3-DH5)

Hopping Frequencies

Channels

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



Appendix A.5: Test Results of Time of Occupancy

BR mode

Time of Channel Occupancy (2441 MHz, DH1)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	159	65.260	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
10.000	844.980	198.824

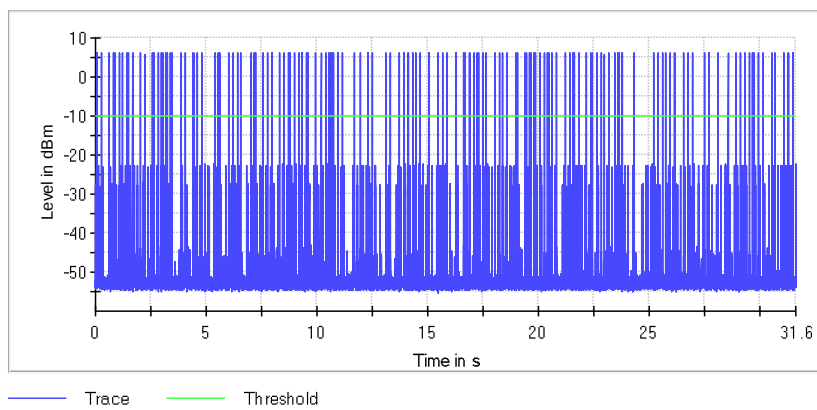
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.40	0.82	400.000	0.000	0.408

DwellTime

Min (ms)	Max (ms)	Mean (ms)
0.40	2.910	0.421

Time of Channel Occupancy



Time of Channel Occupancy(2) (2441 MHz, DH3)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	103	172.840	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
41.250	1961.210	296.133

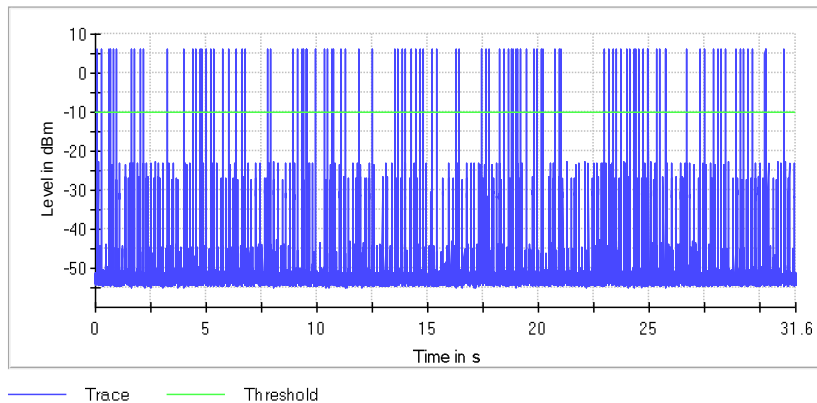
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
1.660	1.670	400.000	0.000	1.662

DwellTime

Min (ms)	Max (ms)	Mean (ms)
1.660	1.670	1.662

Time of Channel Occupancy(2)



Time of Channel Occupancy(3) (2441 MHz, DH5)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	68	200.790	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
10.000	2389.950	453.646

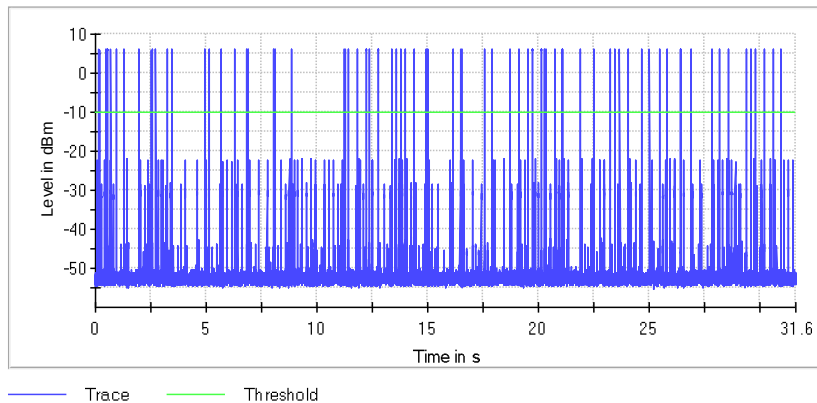
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
2.910	2.910	400.000	0.000	2.910

DwellTime

Min (ms)	Max (ms)	Mean (ms)
2.910	2.910	2.910

Time of Channel Occupancy(3)



EDR mode

Time of Channel Occupancy (2441 MHz, 3DH1)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	168	70.070	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
10.000	614.980	185.819

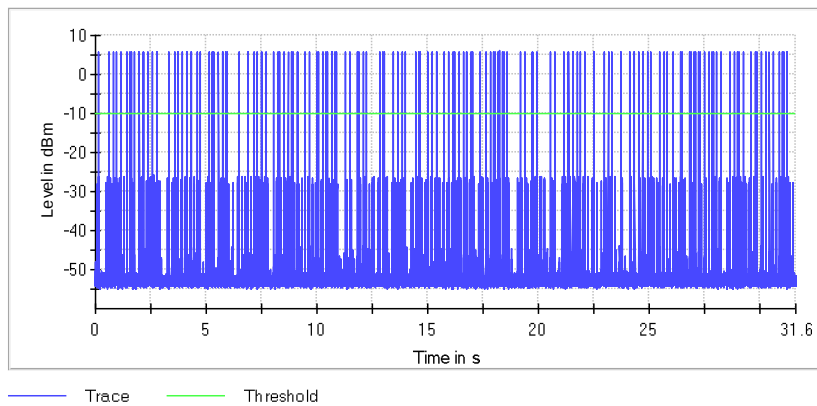
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.40	0.80	400.000	0.000	0.415

DwellTime

Min (ms)	Max (ms)	Mean (ms)
0.41	2.910	0.430

Time of Channel Occupancy



Time of Channel Occupancy(2) (2441 MHz, 3DH3)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	109	181.490	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
44.990	1218.720	277.459

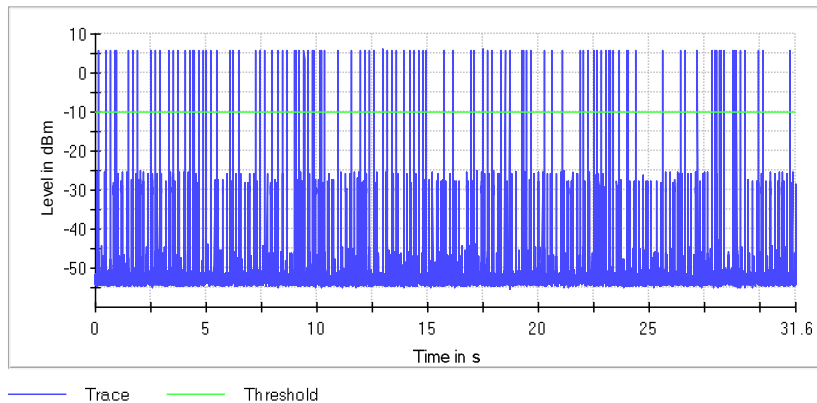
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
1.630	1.670	400.000	0.000	1.650

DwellTime

Min (ms)	Max (ms)	Mean (ms)
1.650	1.670	1.664

Time of Channel Occupancy(2)



Time of Channel Occupancy(3) (2441 MHz, 3DH5)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	91	265.830	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
20.000	1564.970	349.214

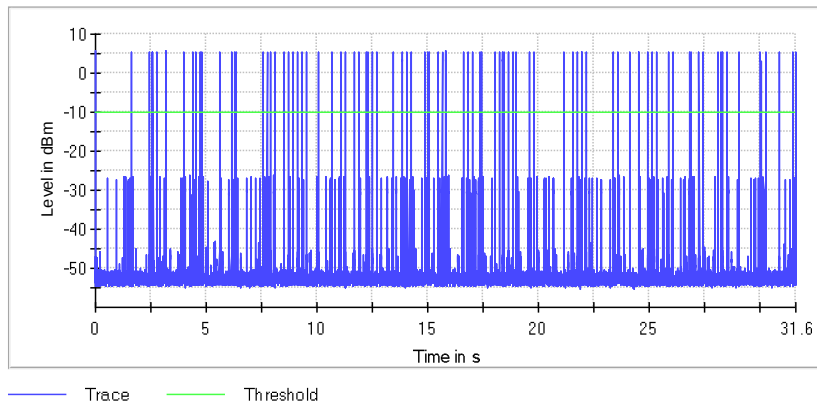
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
2.850	2.910	400.000	0.000	2.889

DwellTime

Min (ms)	Max (ms)	Mean (ms)
2.910	2.920	2.916

Time of Channel Occupancy(3)

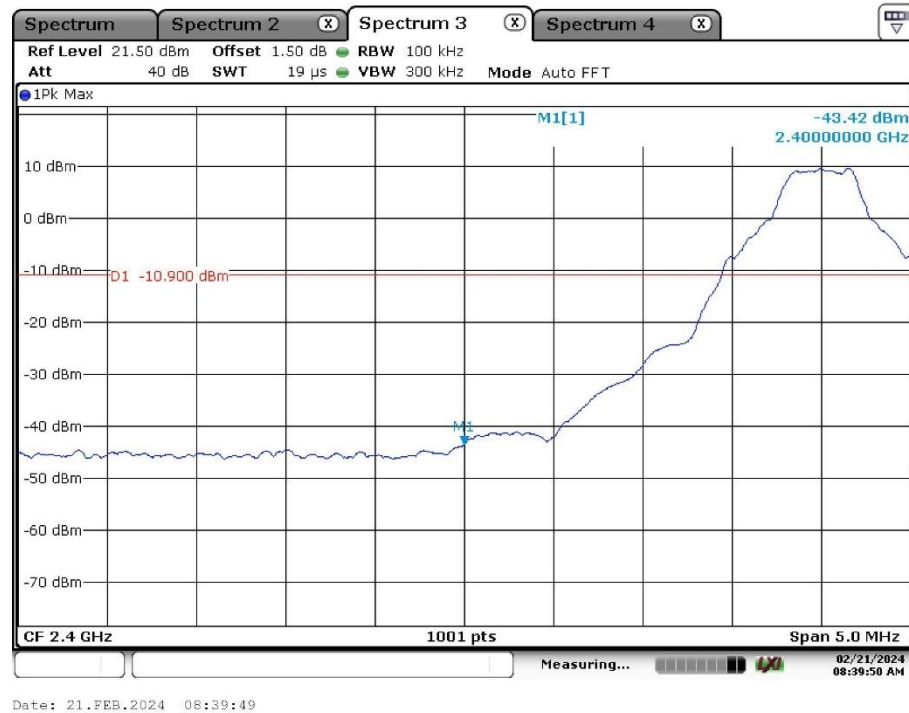


Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

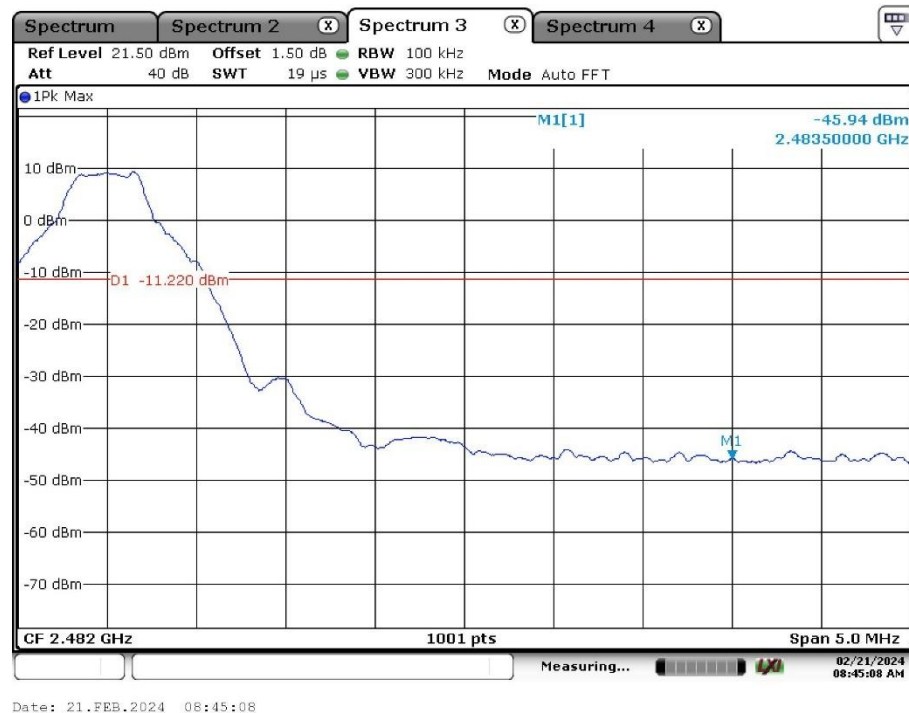
BR mode (DH5)

Fixed mode, Band Edge

Low Channel

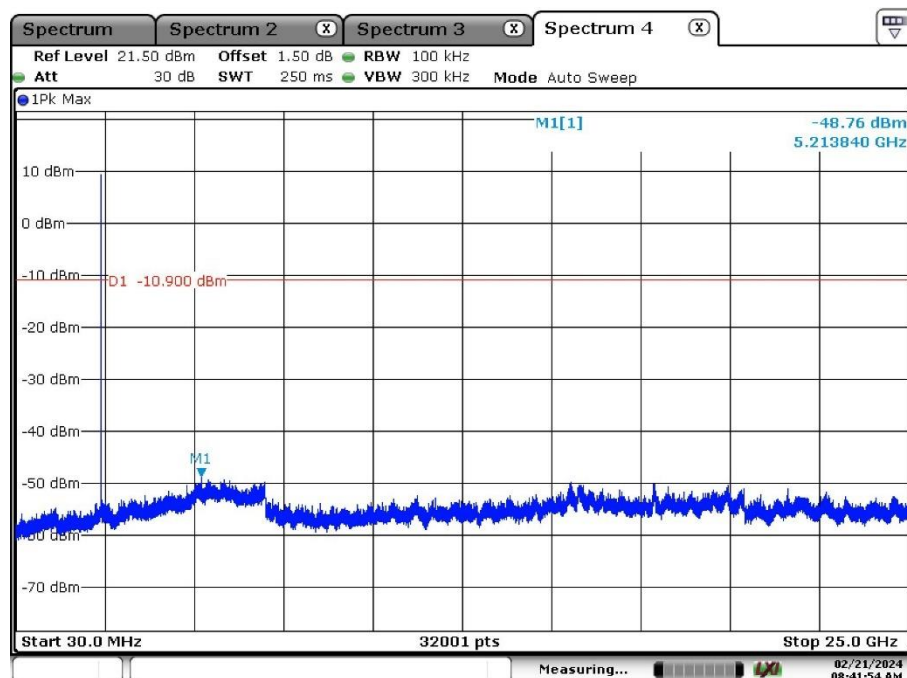


High Channel

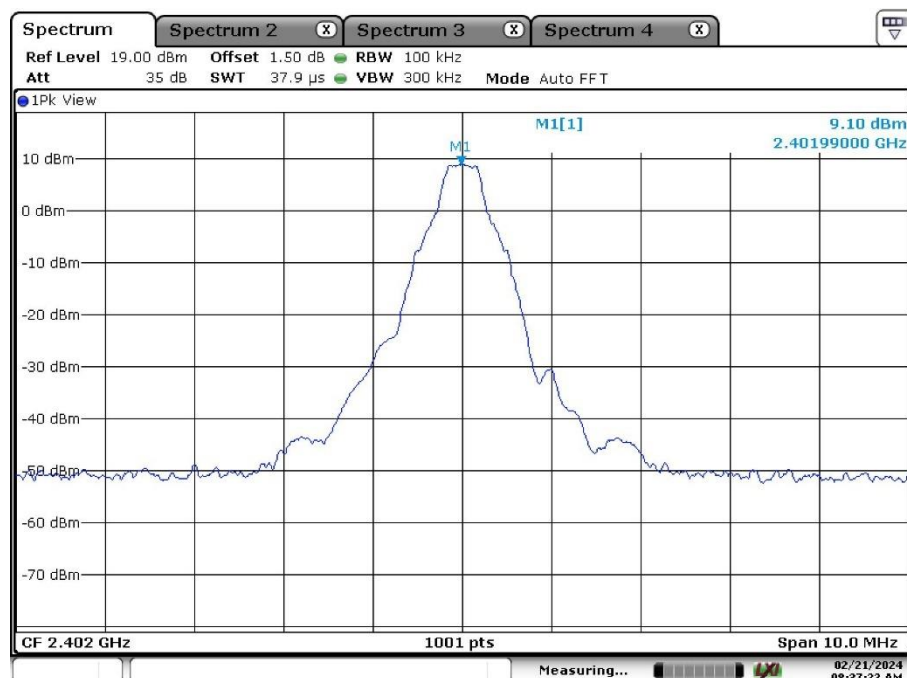


Fixed mode, Conducted Spurious Emission

Low Channel

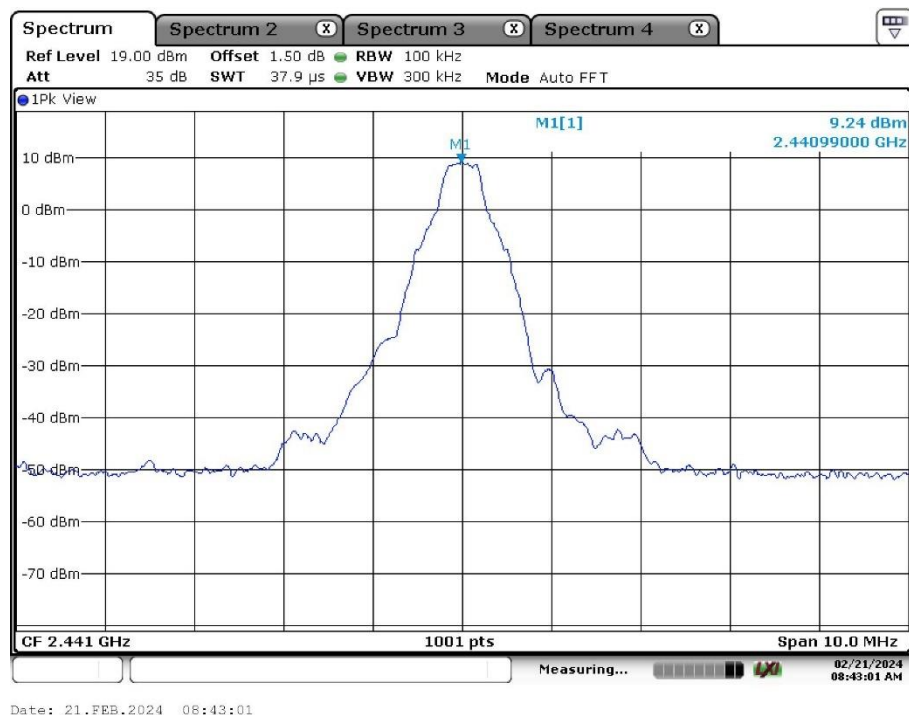
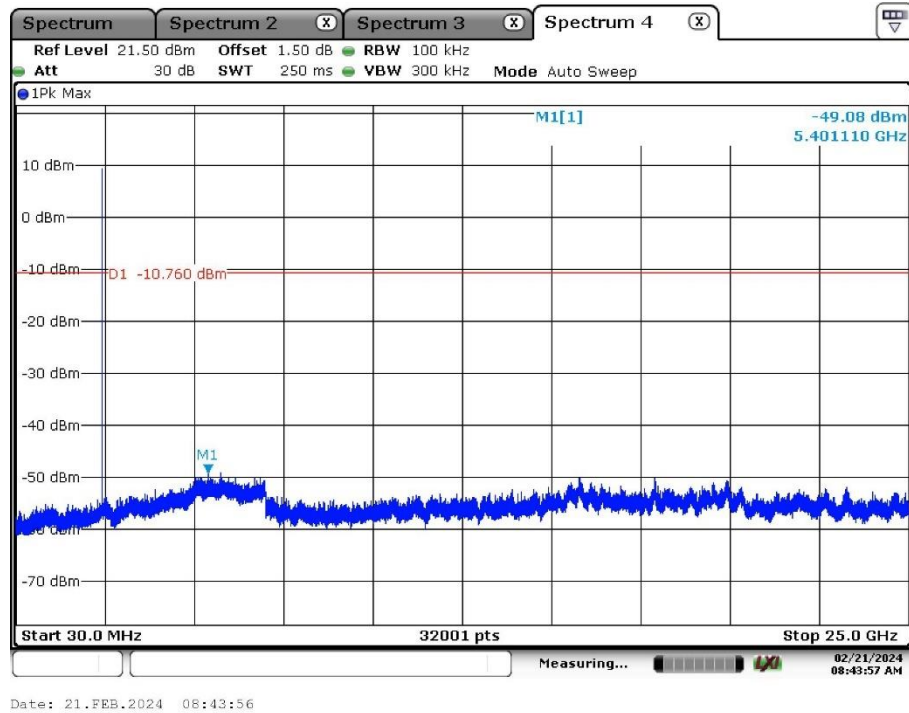


Date: 21.FEB.2024 08:41:54

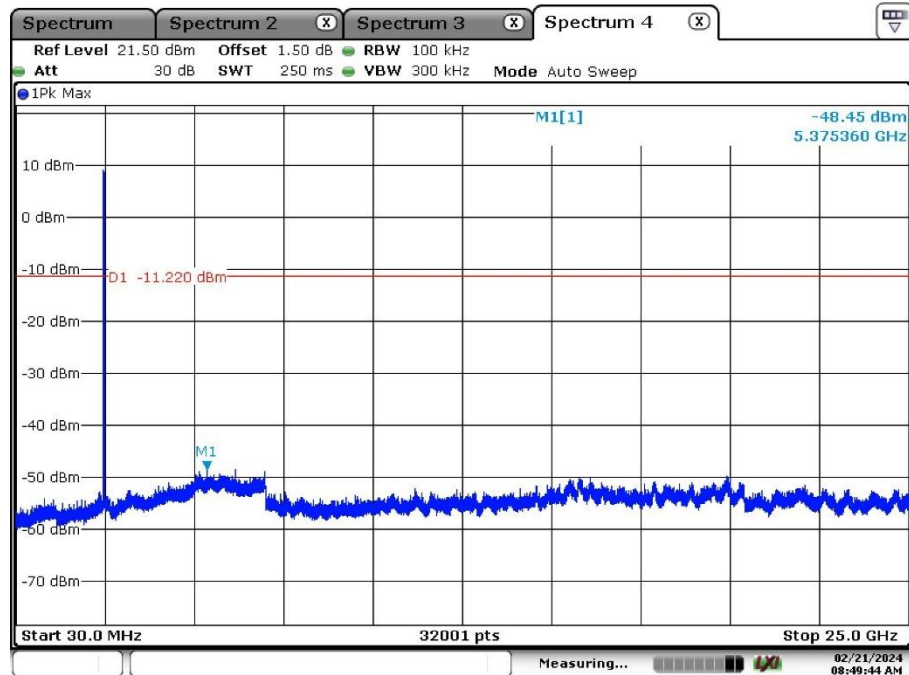


Date: 21.FEB.2024 08:37:22

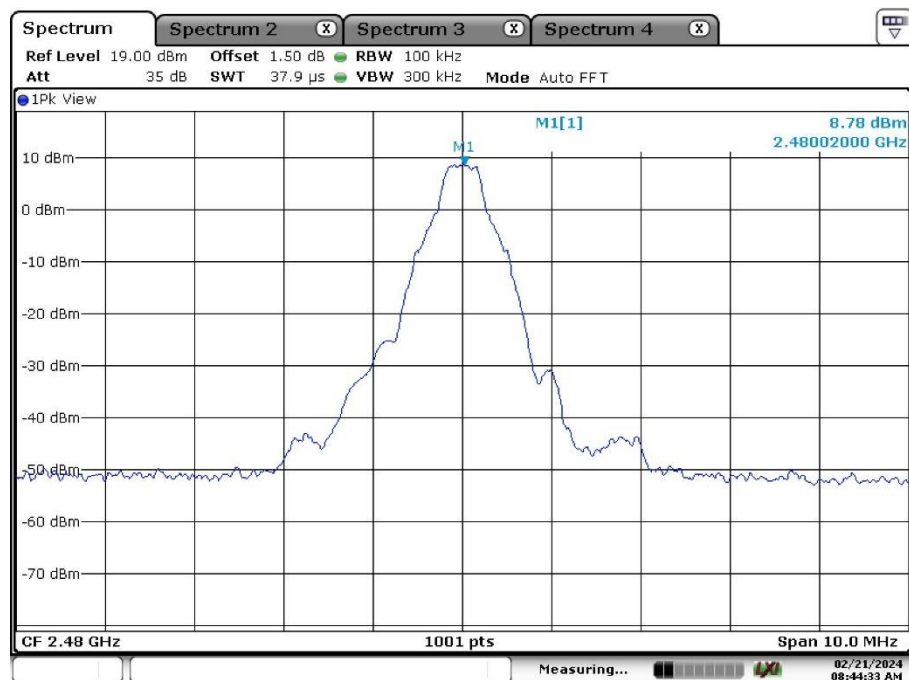
Middle Channel



High Channel



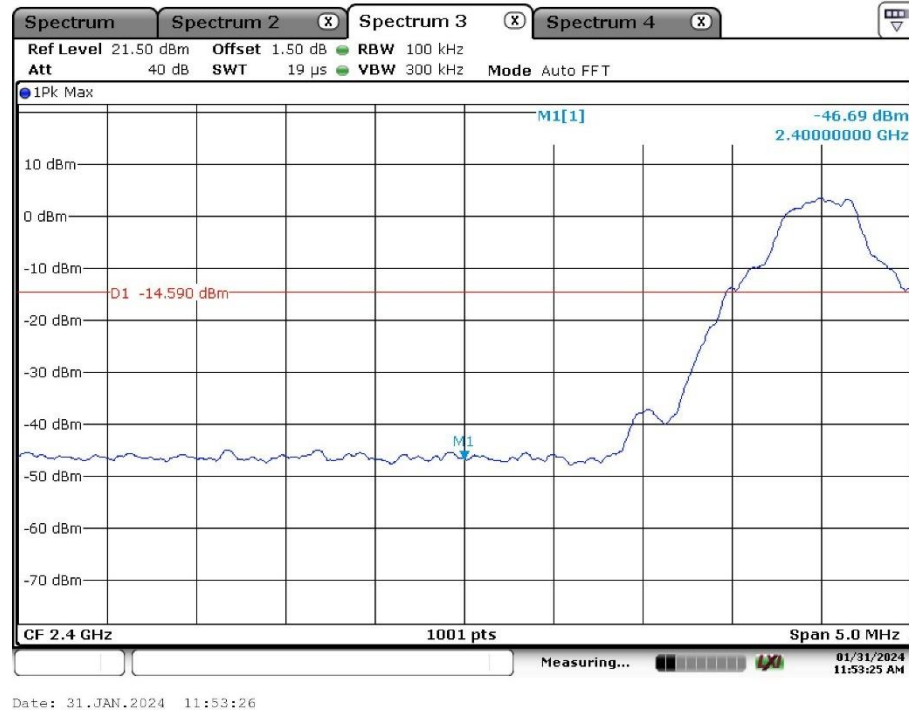
Date: 21.FEB.2024 08:49:43



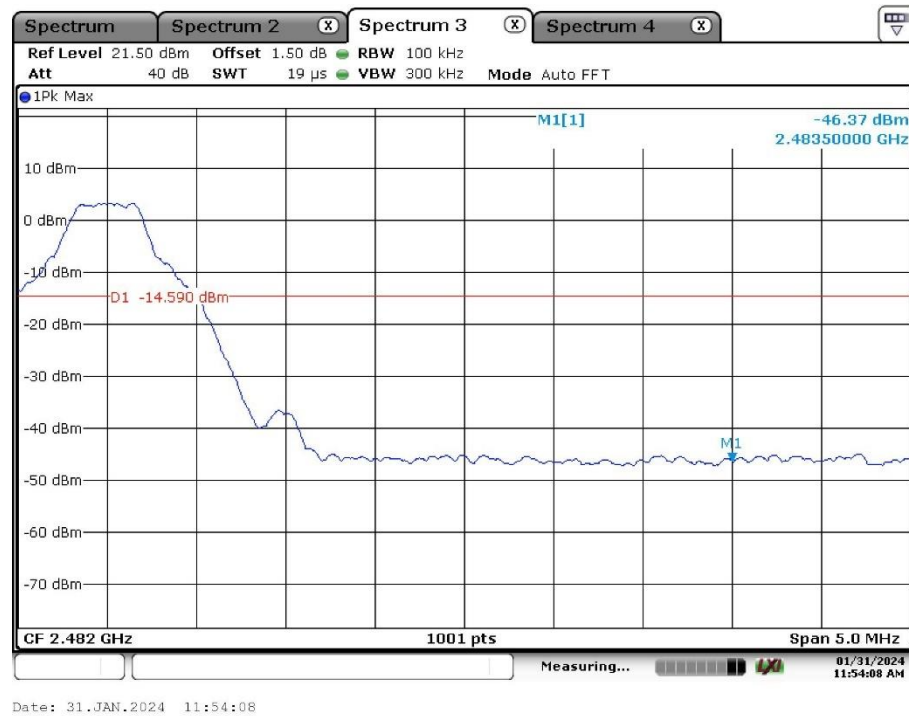
Date: 21.FEB.2024 08:44:33

Hopping Mode, Band Edge

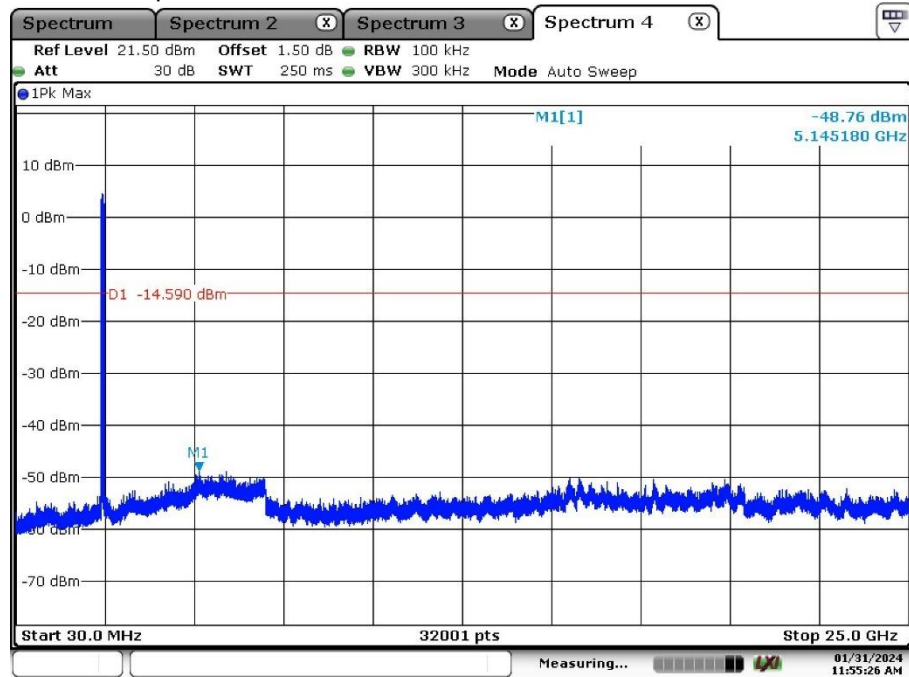
Low Channel



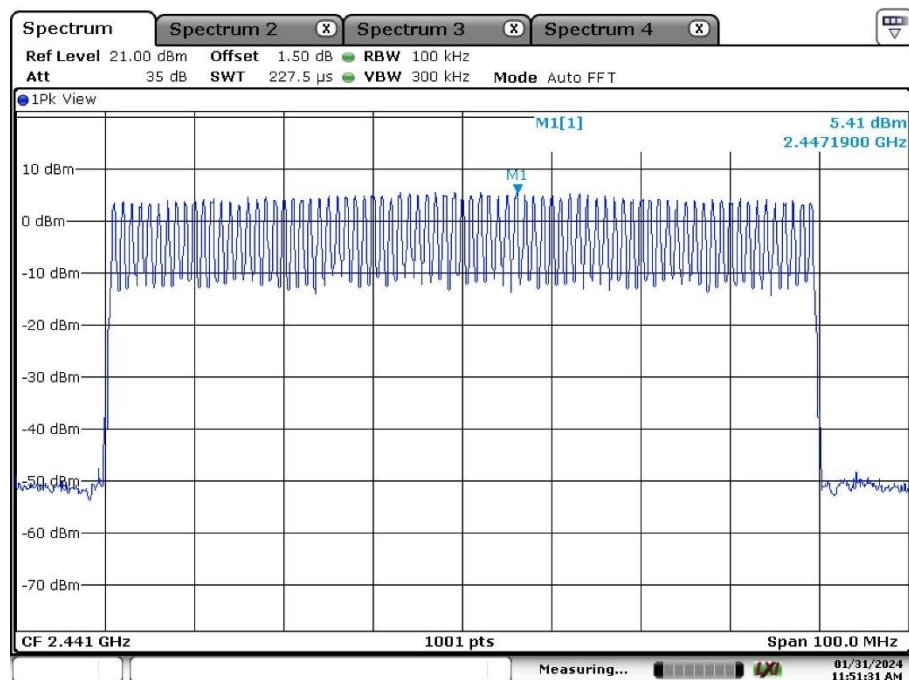
High Channel



Hopping Mode, Conducted Spurious Emission



Date: 31.JAN.2024 11:55:26

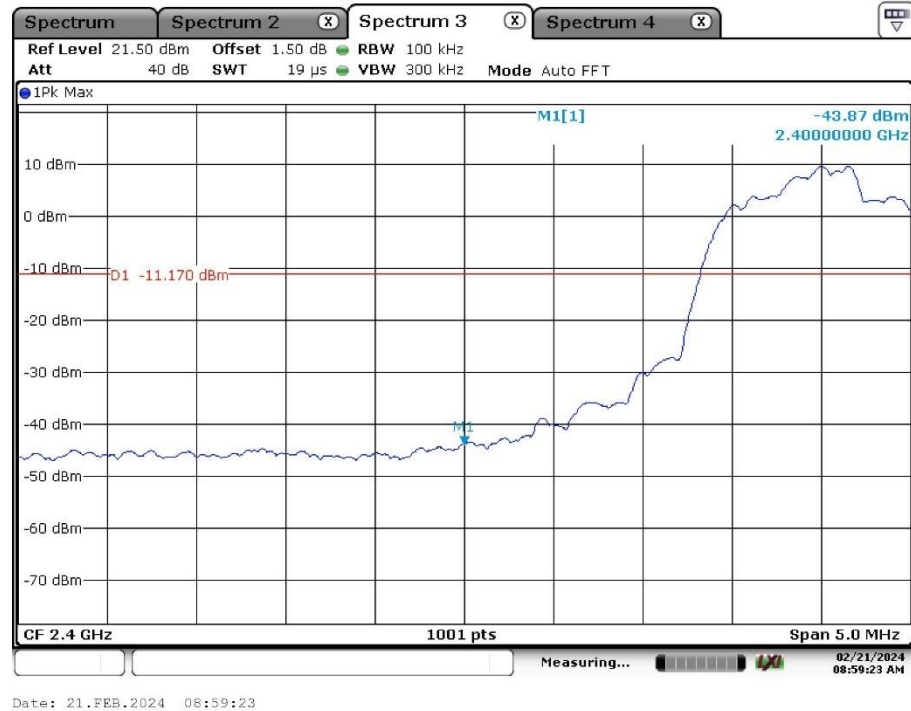


Date: 31.JAN.2024 11:51:32

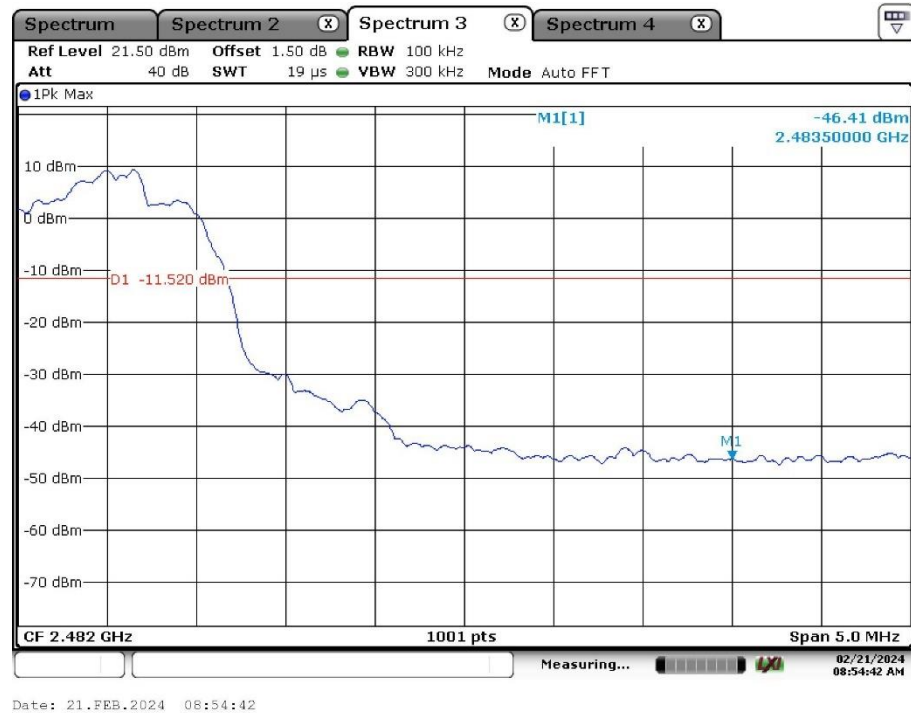
EDR mode (3-DH5)

Fixed mode, Band Edge

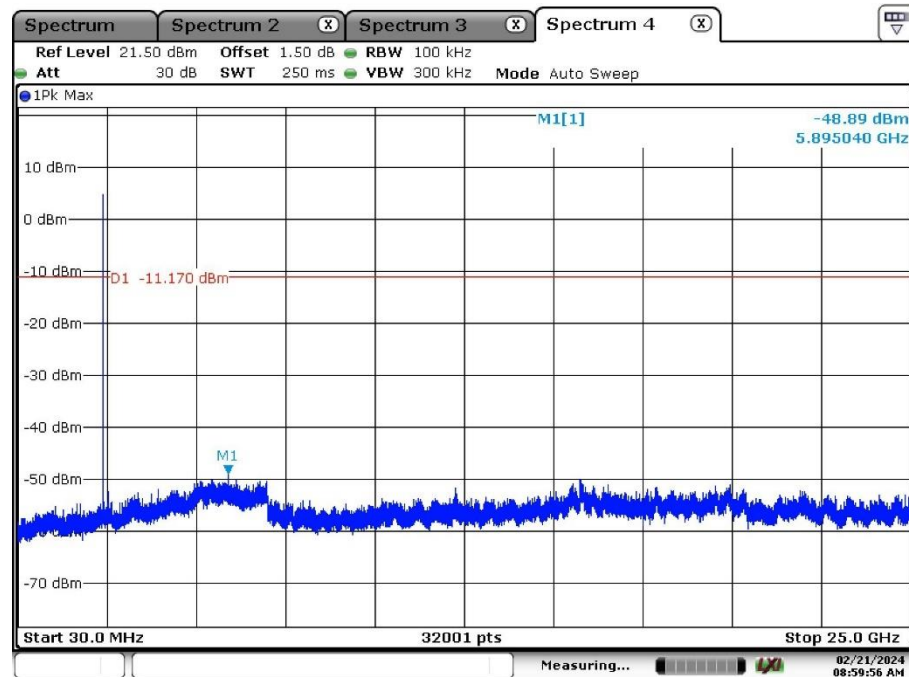
Low Channel



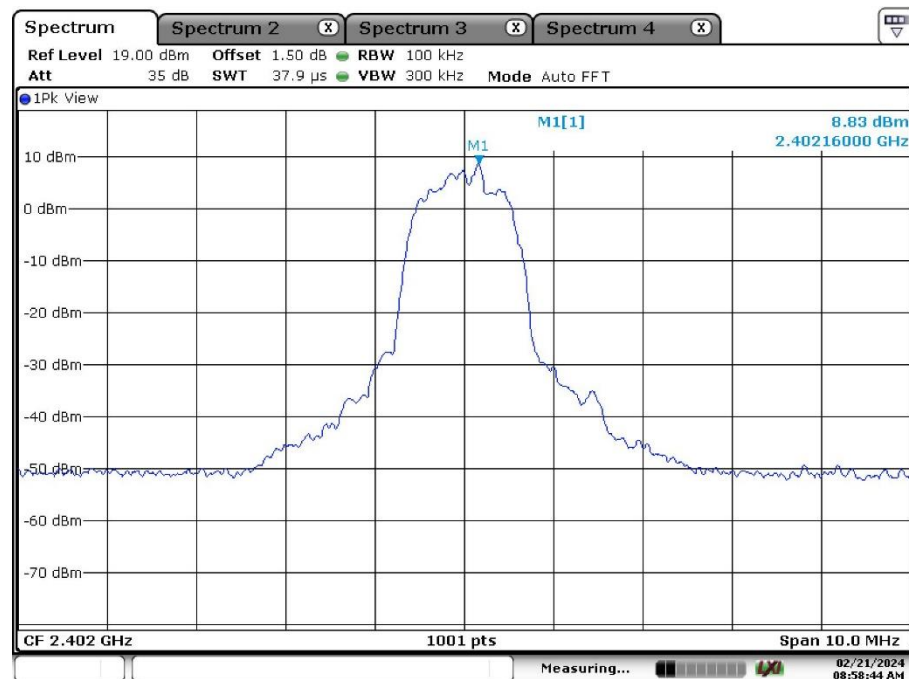
High Channel



Fixed mode, Conducted Spurious Emission
Low Channel

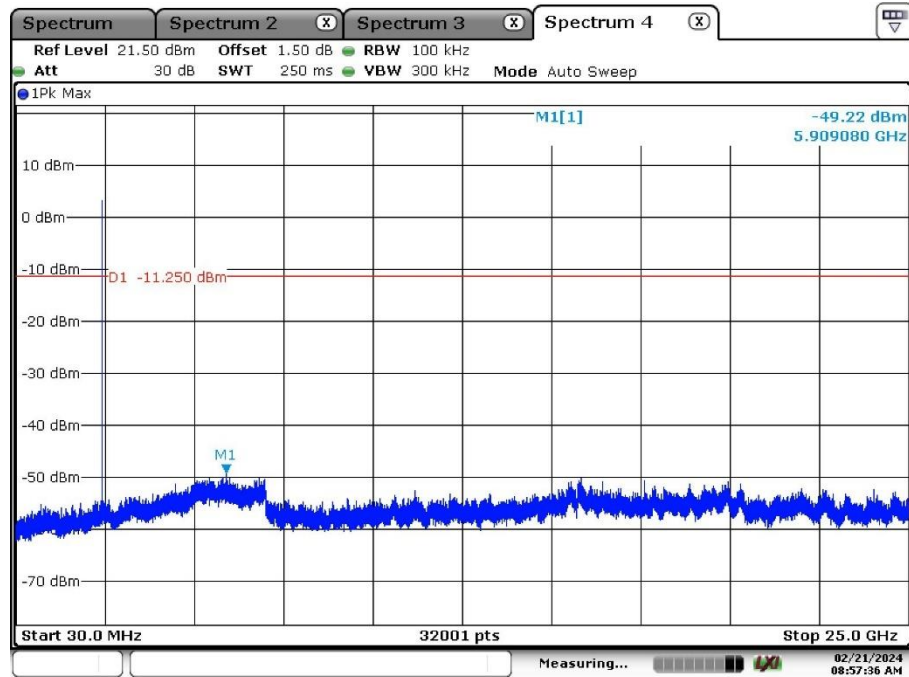


Date: 21.FEB.2024 08:59:56

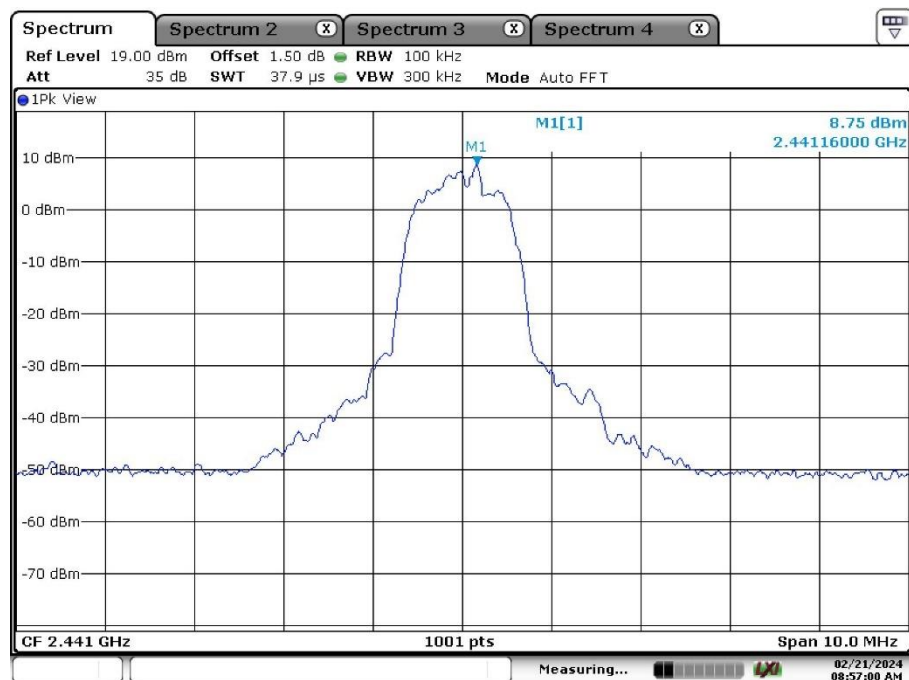


Date: 21.FEB.2024 08:58:43

Middle Channel

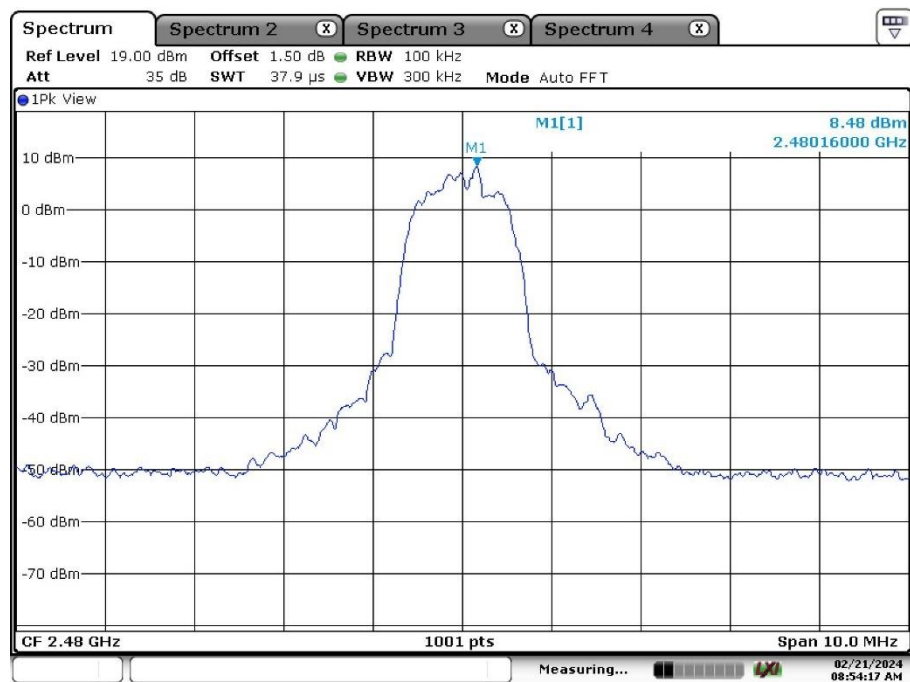
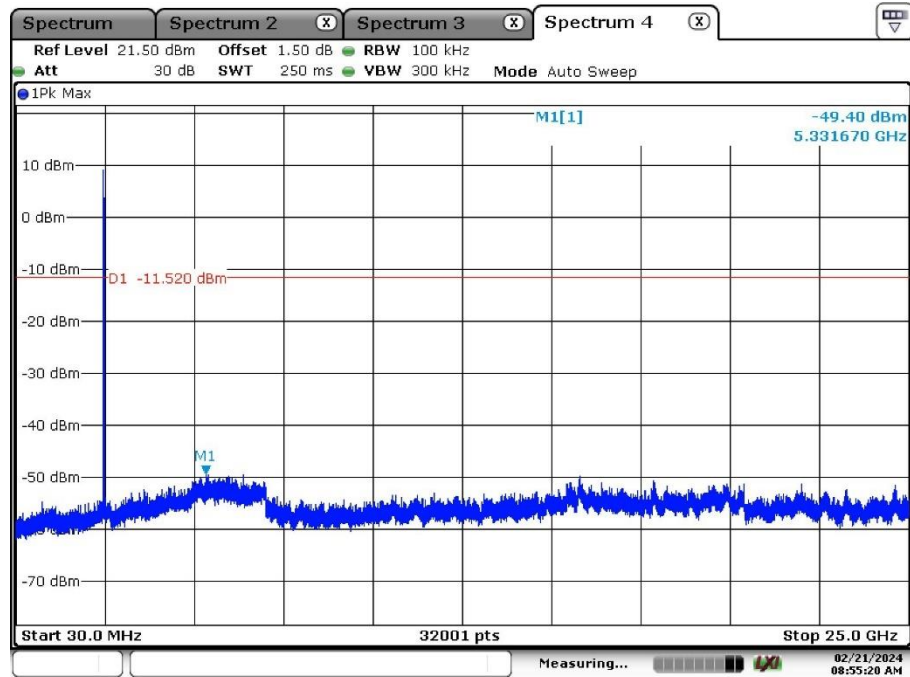


Date: 21.FEB.2024 08:57:35



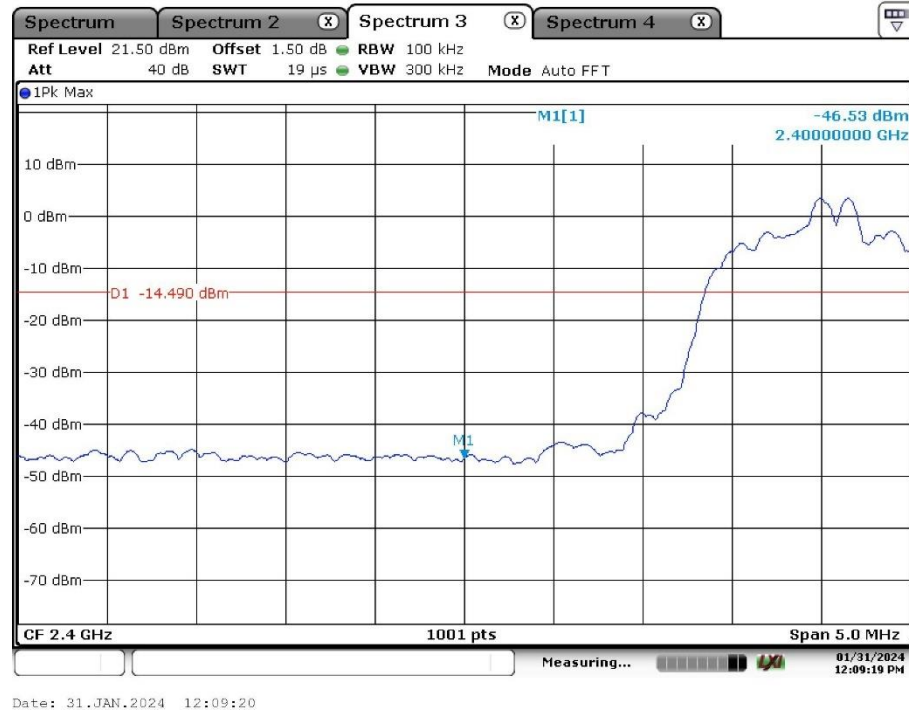
Date: 21.FEB.2024 08:57:00

High Channel

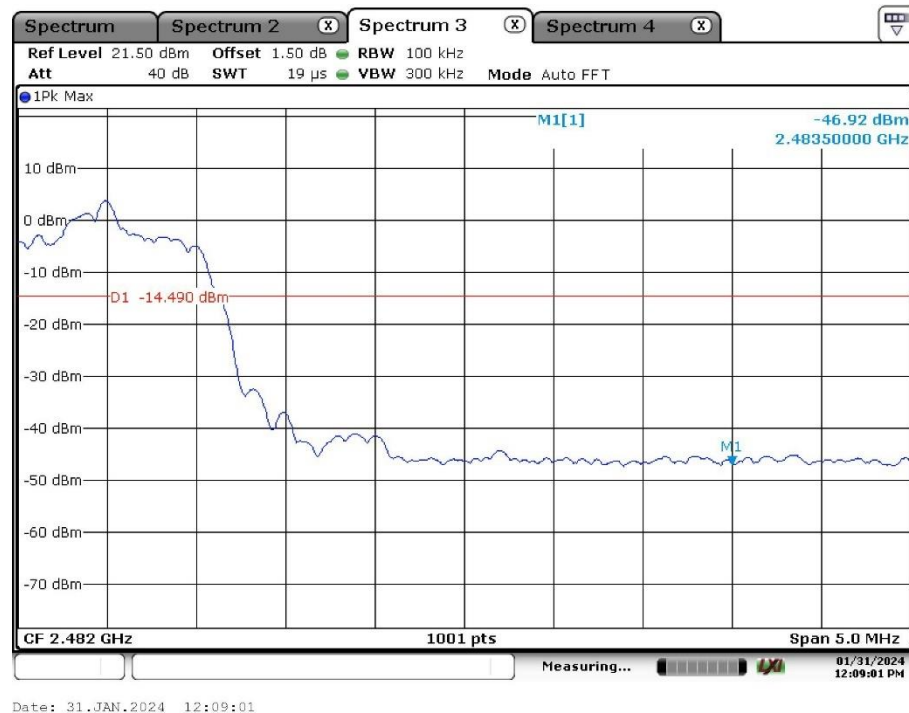


Hopping Mode, Band Edge

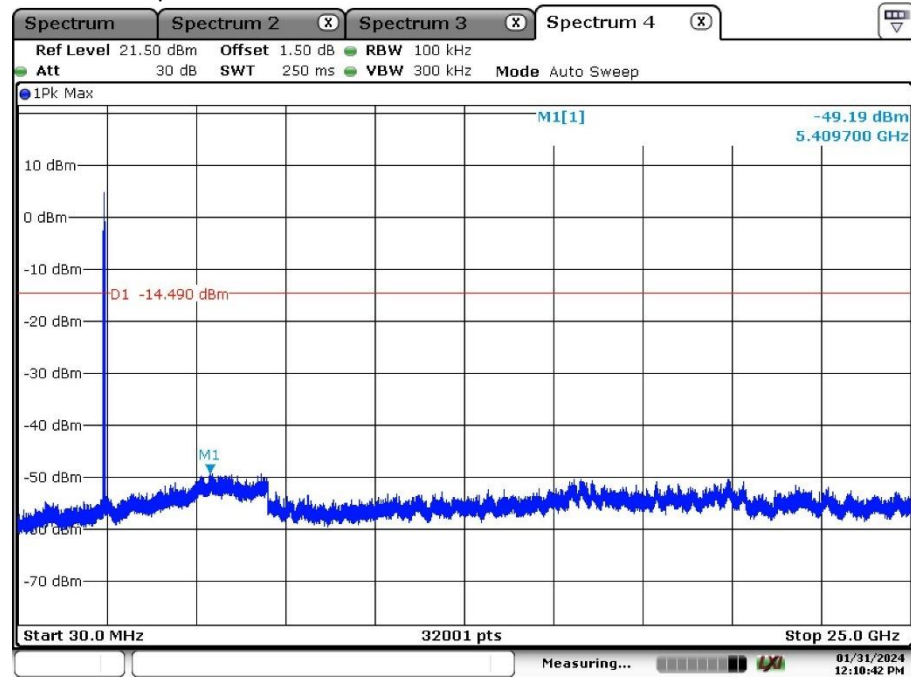
Low Channel



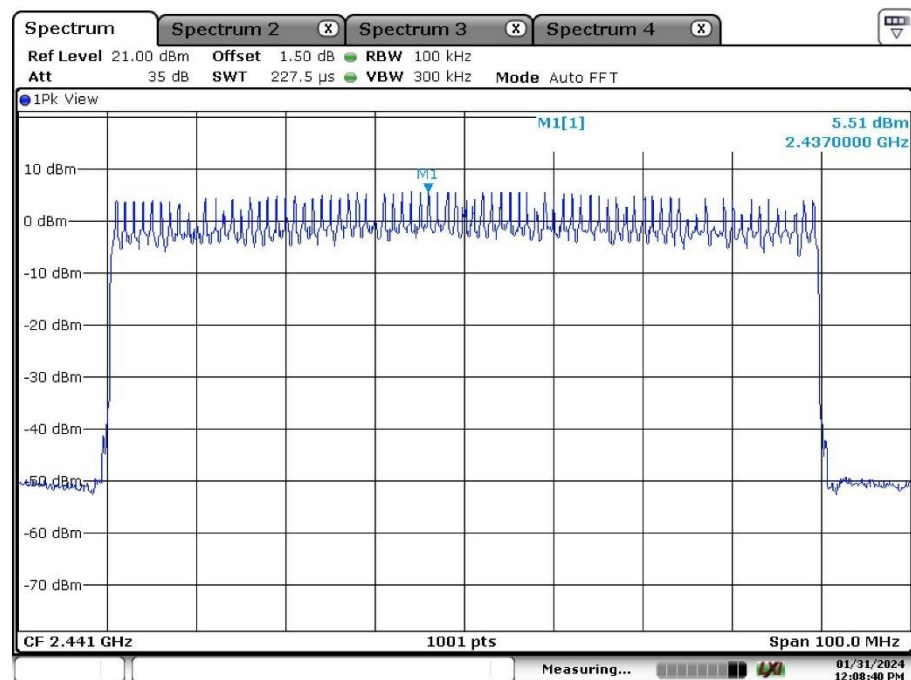
High Channel



Hopping Mode, Conducted Spurious Emission



Date: 31.JAN.2024 12:10:43



Date: 31.JAN.2024 12:08:41

Appendix A.7: Test Results of Radiated Spurious Emissions

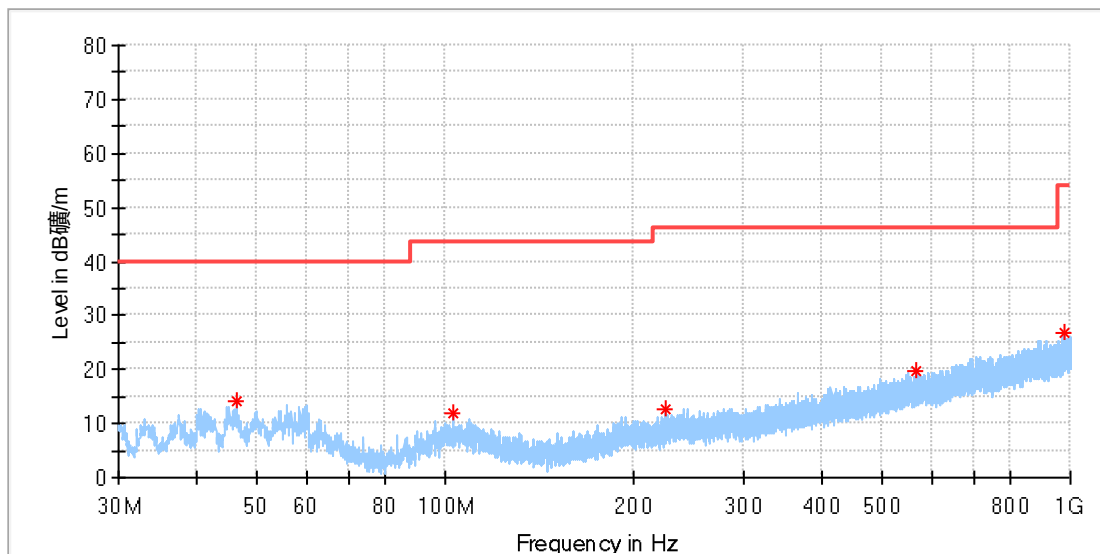
Note:

- 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.

30MHz - 1GHz

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

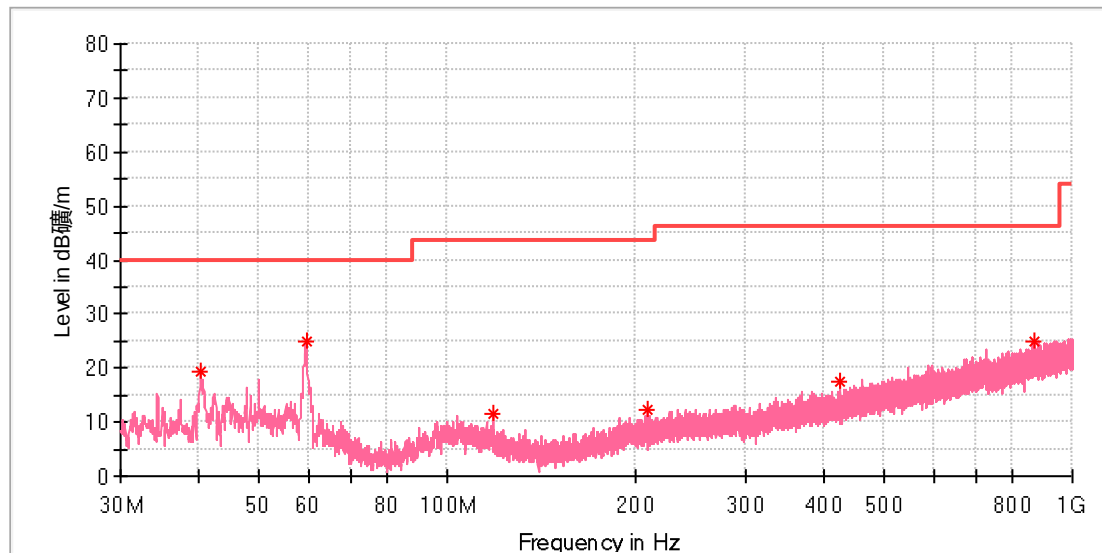
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.303462	14.12	40.00	25.88	100.0	H	181.0	-18.9
103.123077	12.07	43.50	31.43	100.0	H	173.0	-19.2
224.596923	12.56	46.00	33.44	100.0	H	0.0	-18.7
566.186154	19.70	46.00	26.30	100.0	H	355.0	-10.8
974.854615	26.85	54.00	27.15	100.0	H	26.0	-4.5

Final Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
40.259615	19.31	40.00	20.70	100.0	V	285.0	-20.3
59.398462	24.80	40.00	15.20	100.0	V	42.0	-19.2
118.755000	11.67	43.50	31.83	100.0	V	51.0	-20.8
209.673846	12.11	43.50	31.39	100.0	V	216.0	-19.2
425.498846	17.49	46.00	28.51	100.0	V	191.0	-13.7
868.639615	24.81	46.00	21.19	100.0	V	18.0	-5.7

Final_Result

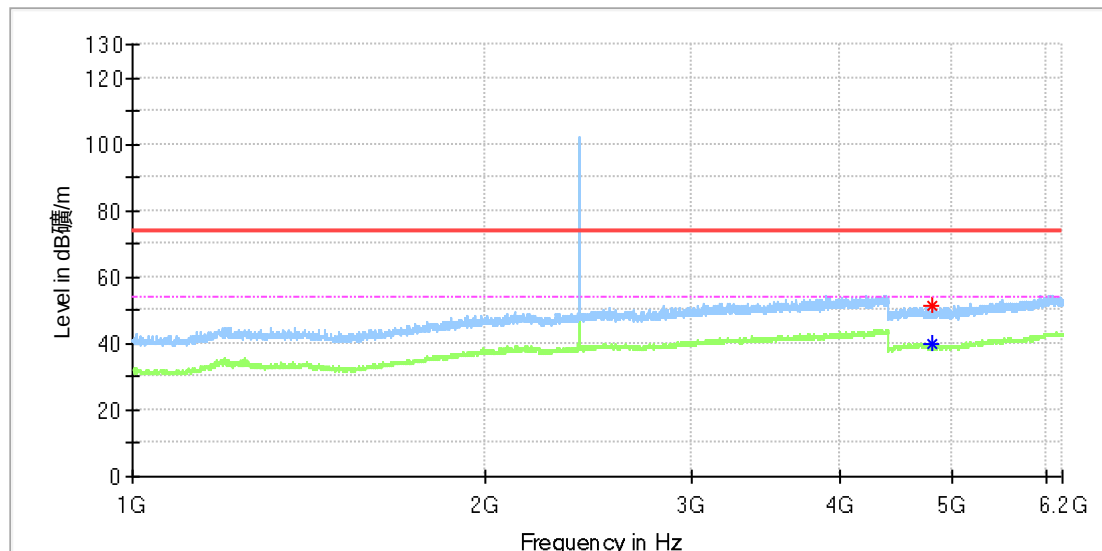
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Lenovo Wireless VoIP Headset
Model:	LB310
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168456688/A003644969-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

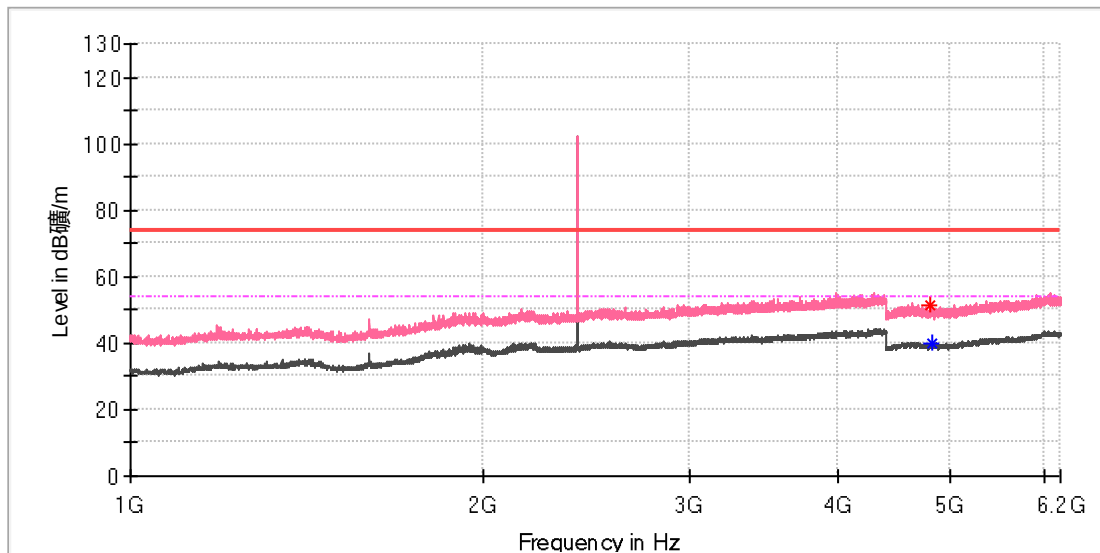
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4801.000000	51.11	---	74.00	22.89	150.0	H	307.0	11.8
4809.000000	---	39.62	54.00	14.38	150.0	H	90.0	11.8

Final Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

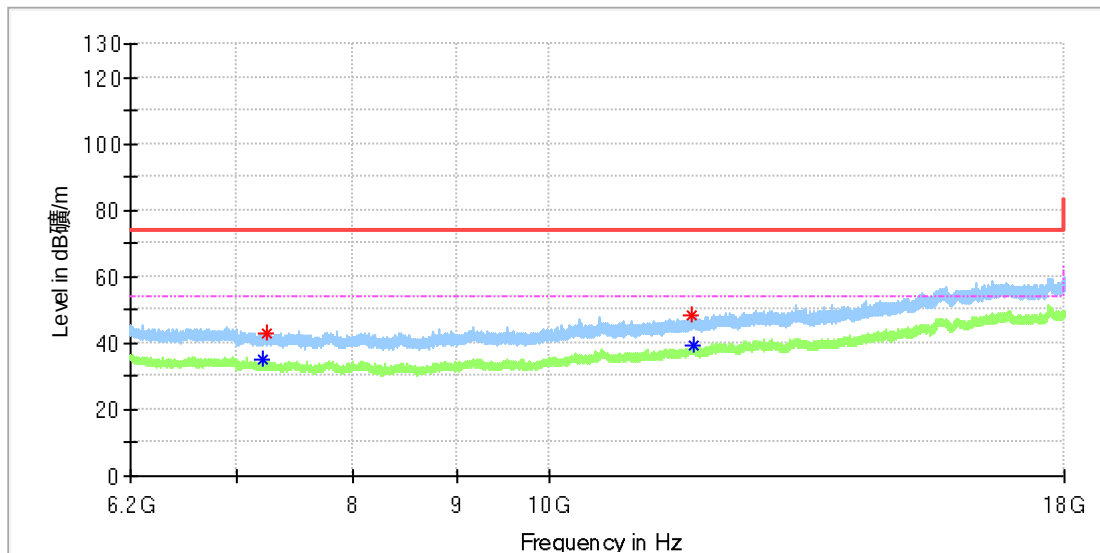
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4809.000000	51.24	---	74.00	22.76	150.0	V	343.0	11.8
4812.500000	---	39.78	54.00	14.22	150.0	V	214.0	11.8

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

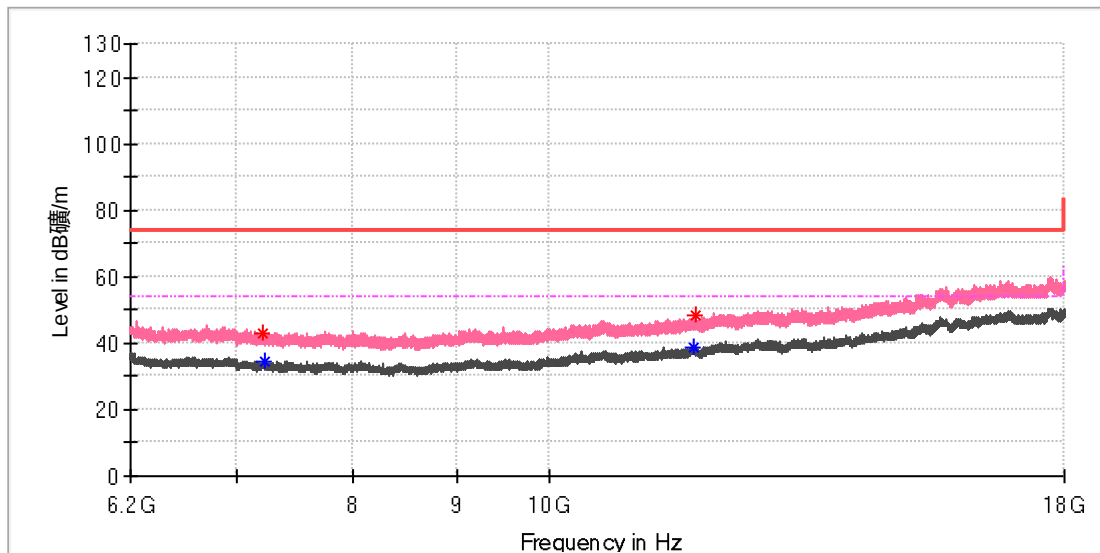
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.241667	---	34.88	54.00	19.12	150.0	H	223.0	8.7
7238.400000	42.81	---	74.00	31.19	150.0	H	137.0	8.6
11761.733333	48.18	---	74.00	25.82	150.0	H	0.0	13.4
11787.300000	---	39.16	54.00	14.84	150.0	H	212.0	13.4

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

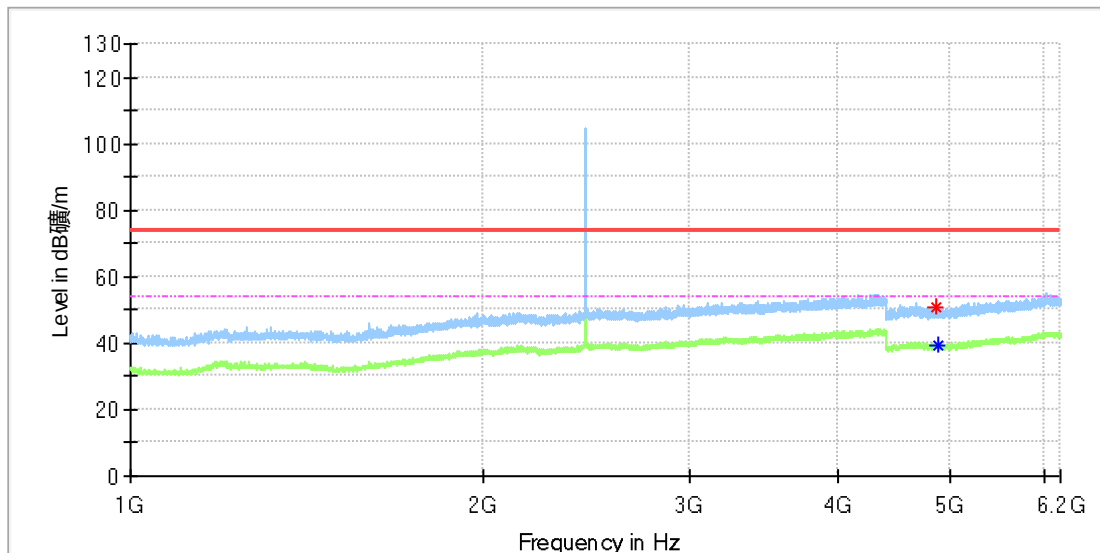
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7207.425000	42.83	---	74.00	31.17	150.0	V	121.0	8.8
7224.633333	---	34.59	54.00	19.41	150.0	V	297.0	8.7
11791.725000	---	38.87	54.00	15.13	150.0	V	158.0	13.4
11824.666667	48.51	---	74.00	25.49	150.0	V	158.0	13.5

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

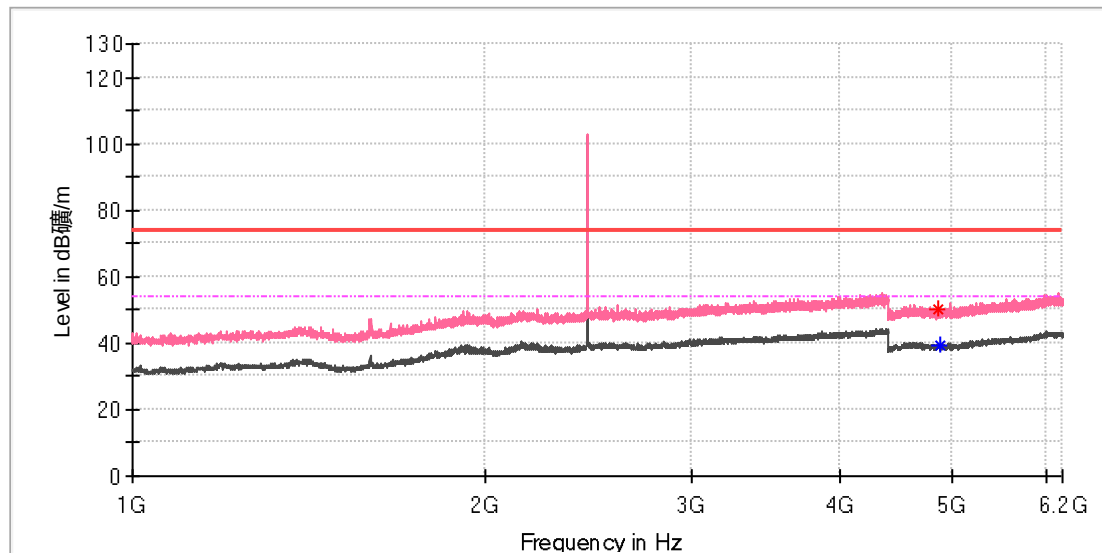
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4853.500000	50.64	---	74.00	23.36	150.0	H	80.0	11.8
4869.500000	---	39.30	54.00	14.70	150.0	H	182.0	11.8

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

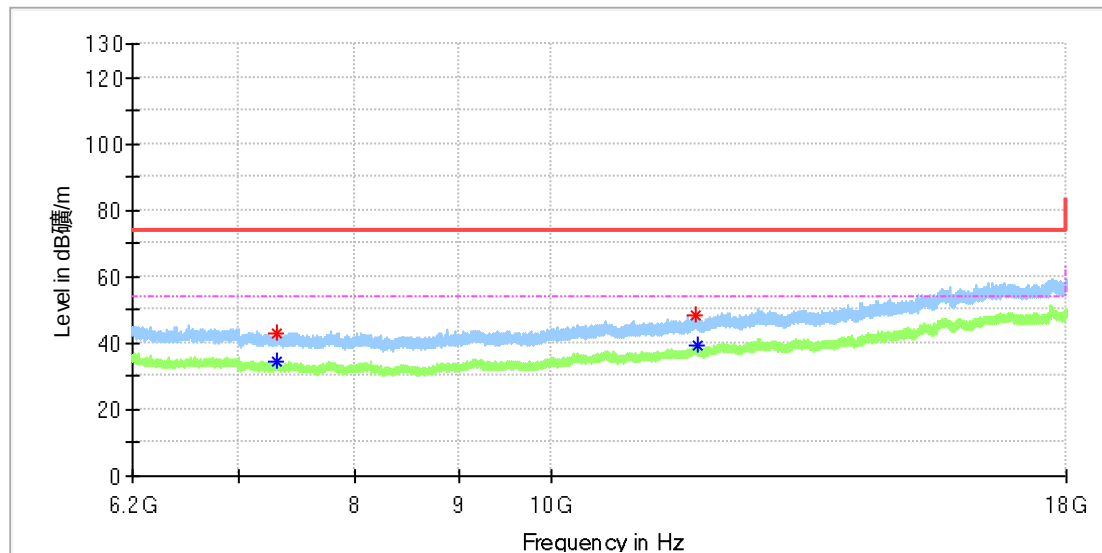
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4861.500000	49.97	---	74.00	24.03	150.0	V	33.0	11.8
4885.000000	---	39.26	54.00	14.74	150.0	V	20.0	11.8

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

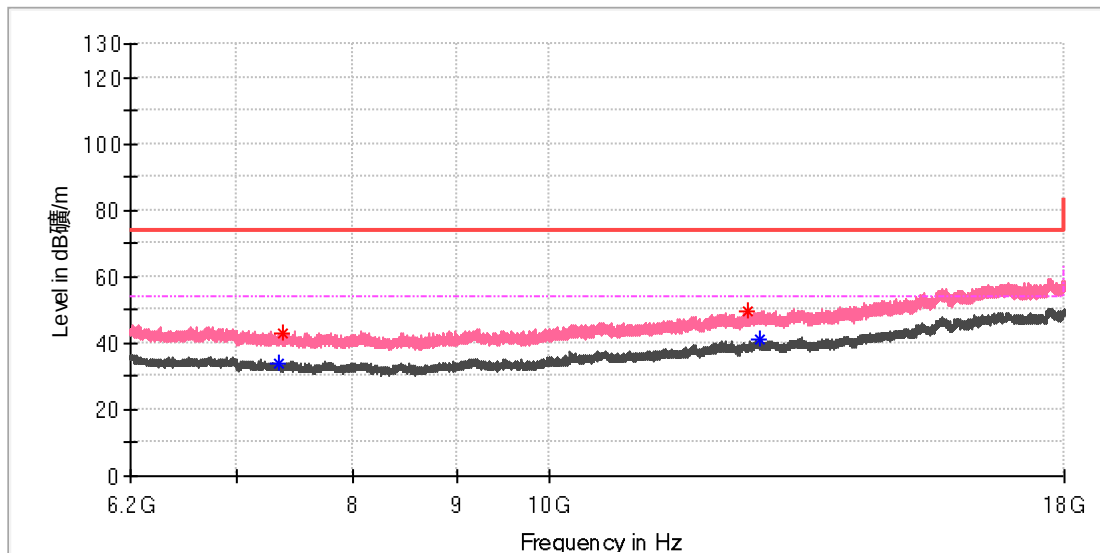
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	---	34.27	54.00	19.73	150.0	H	227.0	8.2
7309.200000	42.91	---	74.00	31.09	150.0	H	180.0	8.2
11791.233333	48.41	---	74.00	25.59	150.0	H	39.0	13.4
11805.983333	---	39.00	54.00	15.00	150.0	H	51.0	13.4

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

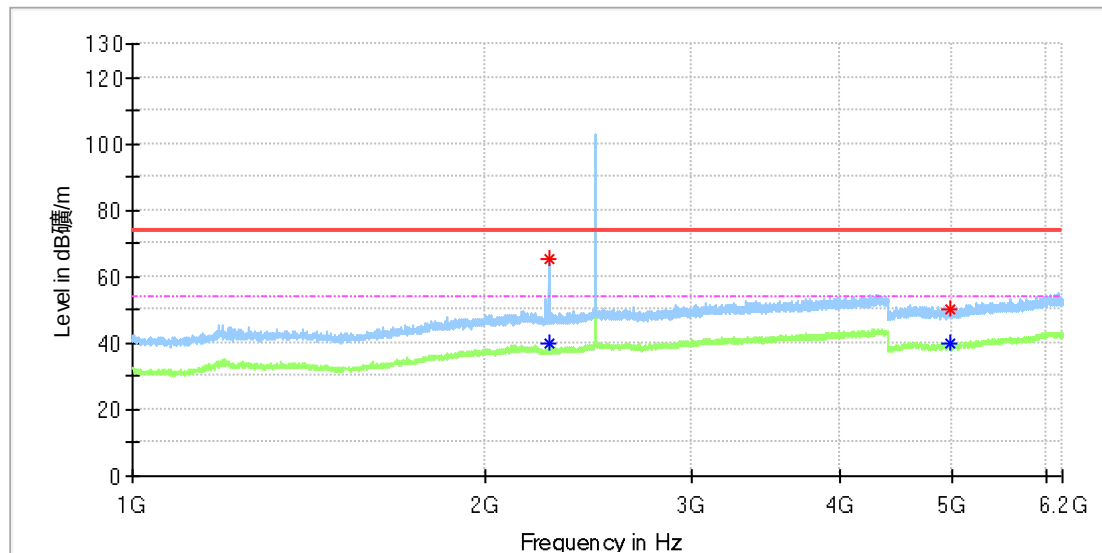
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7346.075000	---	34.00	54.00	20.00	150.0	V	192.0	8.1
7380.000000	43.04	---	74.00	30.96	150.0	V	228.0	8.2
12542.500000	49.84	---	74.00	24.16	150.0	V	45.0	14.7
12699.833333	---	40.84	54.00	13.16	150.0	V	240.0	15.1

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_High channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

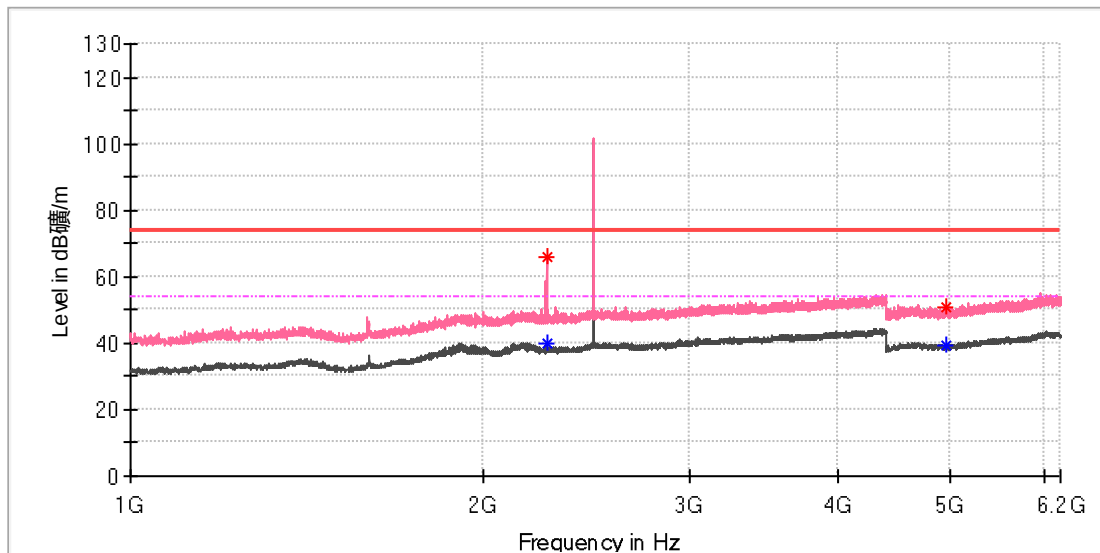
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2269.000000	---	39.95	54.00	14.05	150.0	H	66.0	6.4
2269.000000	65.34	---	74.00	8.66	150.0	H	66.0	6.4
4966.000000	---	39.61	54.00	14.39	150.0	H	301.0	11.8
4968.000000	50.04	---	74.00	23.96	150.0	H	117.0	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: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_High channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

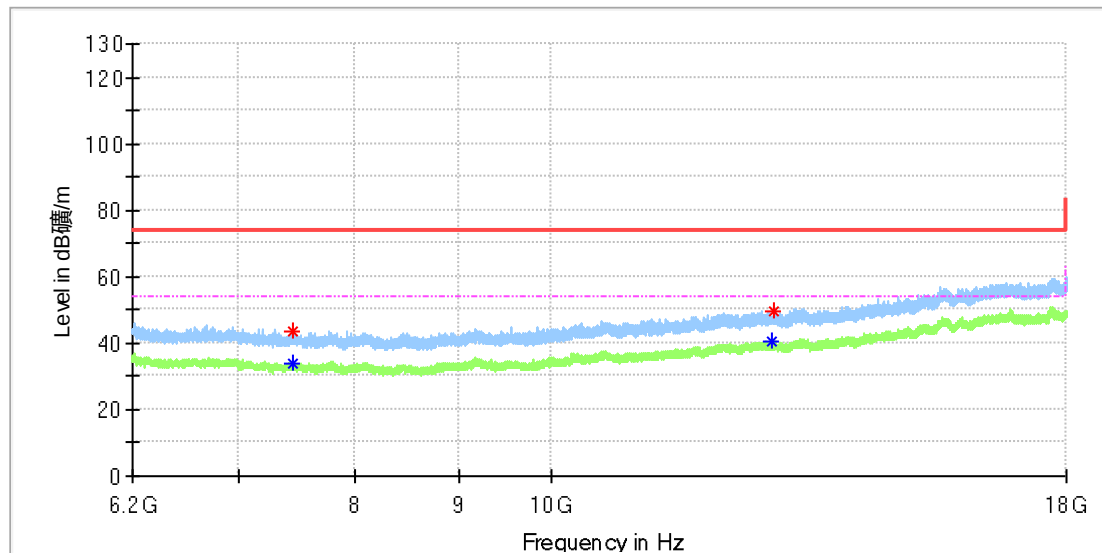
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2261.500000	---	39.91	54.00	14.09	150.0	V	355.0	6.4
2261.500000	66.19	---	74.00	7.81	150.0	V	355.0	6.4
4949.000000	---	39.57	54.00	14.43	150.0	V	57.0	11.8
4960.500000	50.76	---	74.00	23.24	150.0	V	269.0	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: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_High channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

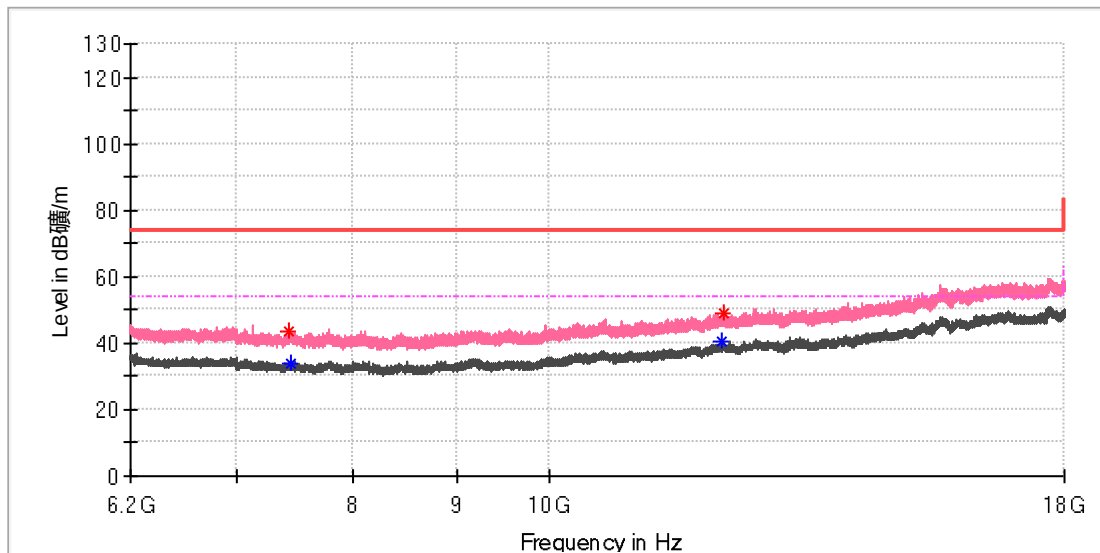
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.475000	---	34.07	54.00	19.93	150.0	H	292.0	8.4
7443.916667	43.33	---	74.00	30.67	150.0	H	305.0	8.5
12874.866667	---	40.70	54.00	13.30	150.0	H	0.0	15.4
12891.583333	49.42	---	74.00	24.58	150.0	H	111.0	15.5

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_High channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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	43.53	---	74.00	30.47	150.0	V	288.0	8.4
7439.983333	---	33.96	54.00	20.04	150.0	V	43.0	8.4
12173.750000	---	40.40	54.00	13.60	150.0	V	164.0	14.5
12188.008333	48.94	---	74.00	25.06	150.0	V	0.0	14.6

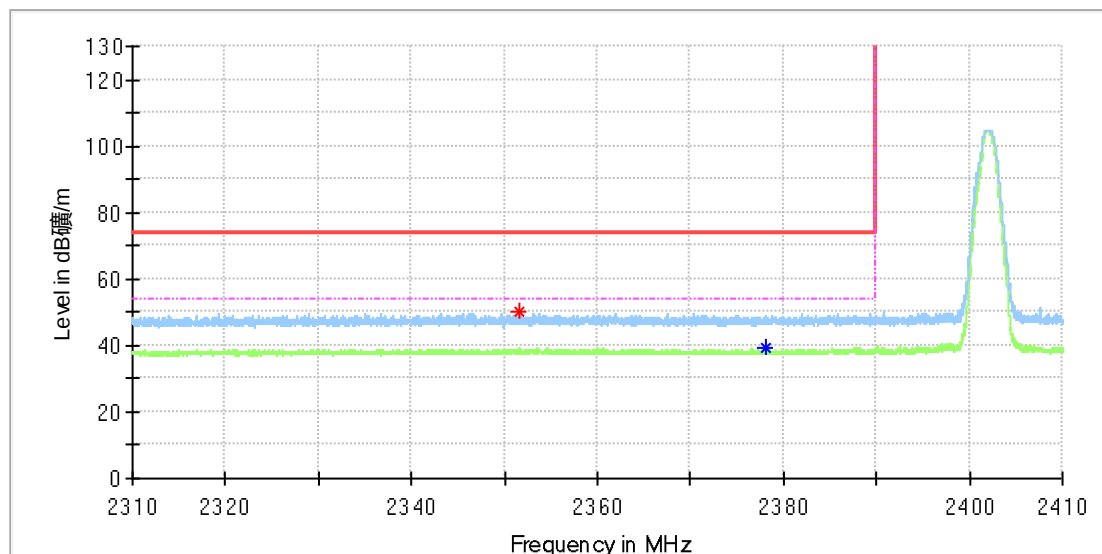
Final_Result

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

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

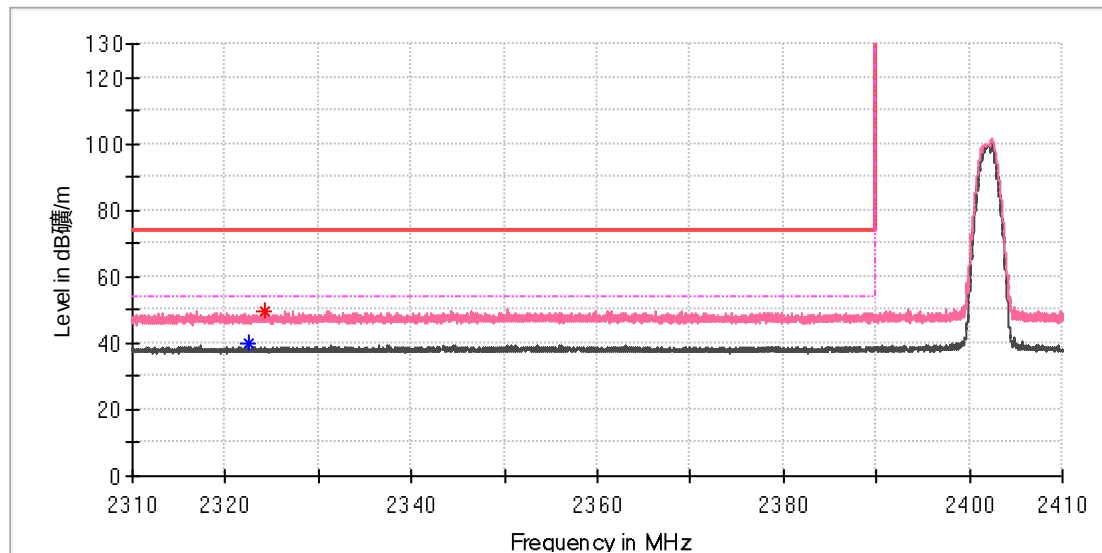
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.588235	50.02	---	74.00	23.98	150.0	H	203.0	6.9
2378.102941	---	39.55	54.00	14.45	150.0	H	252.0	6.9

Final Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

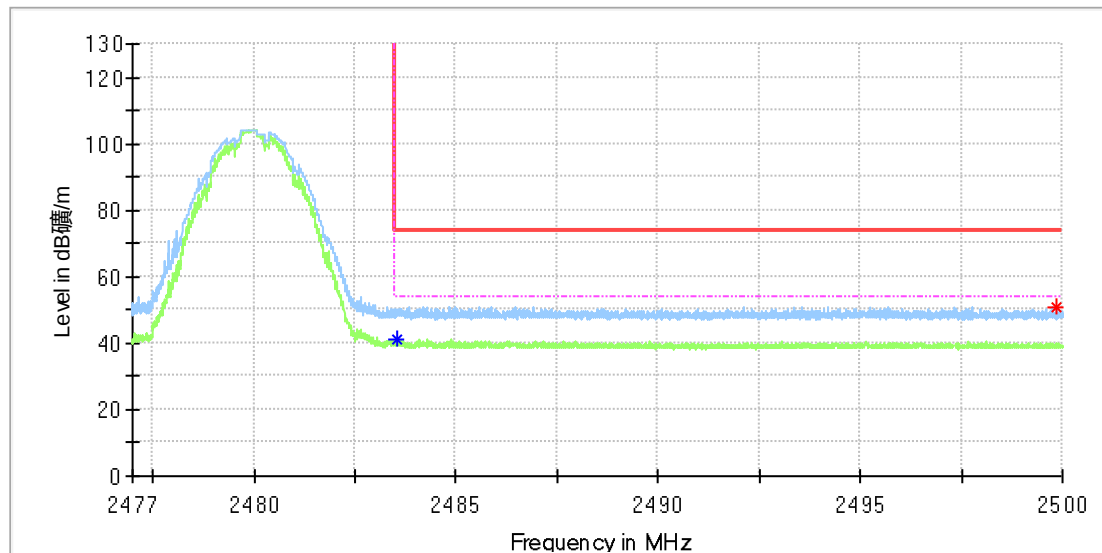
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2322.411765	---	39.79	54.00	14.21	150.0	V	298.0	6.6
2324.308824	49.52	---	74.00	24.48	150.0	V	235.0	6.6

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_High channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

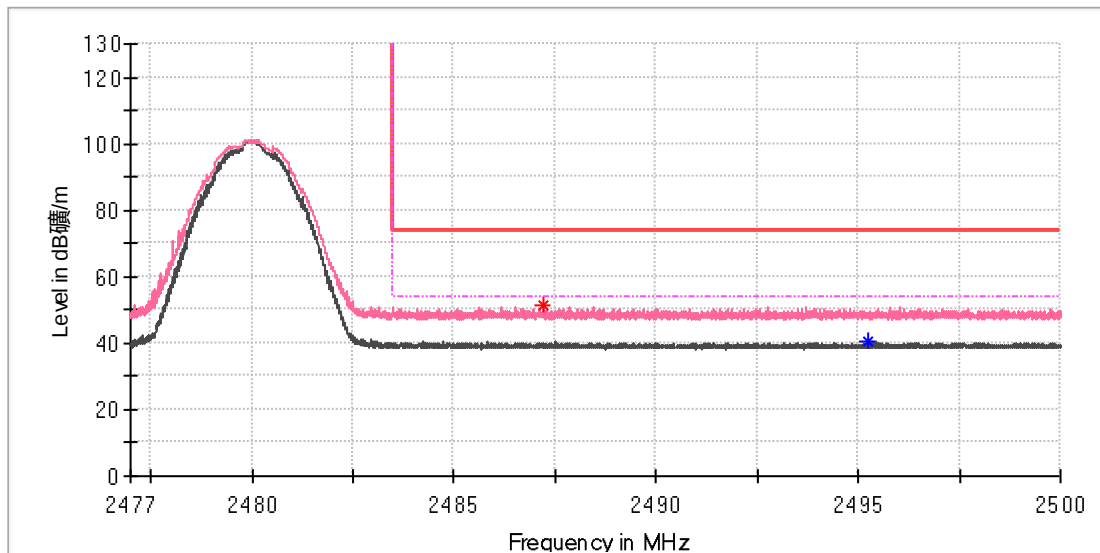
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.552941	---	41.14	54.00	12.86	150.0	H	231.0	7.4
2499.872059	50.94	---	74.00	23.06	150.0	H	231.0	7.4

Final_Result

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

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Model: LB310
Test Mode: BR_DH5_High channel
Order No/Sample No: 168456688/A003644969-003
Test Voltage: Battery
Remark: Temp 23 Humi:56%
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)
2487.197059	51.55	---	74.00	22.45	150.0	V	200.0	7.4
2495.239706	---	40.73	54.00	13.27	150.0	V	329.0	7.4

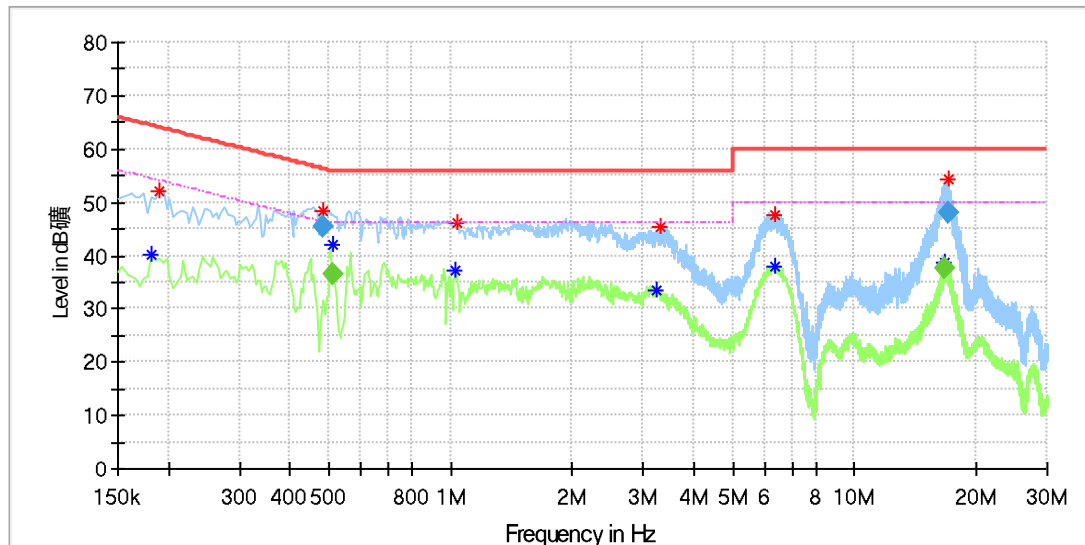
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.9: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name	Lenovo Wireless VoIP Headset
Order Number:	168456688
Model:	LB310
Test Mode:	BT link
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Steven Lan/Gary Chen
Tem./Hum./Pressure:	21.3°C/50.8%/101kPa
Remark:	SR1



Critical Freqs

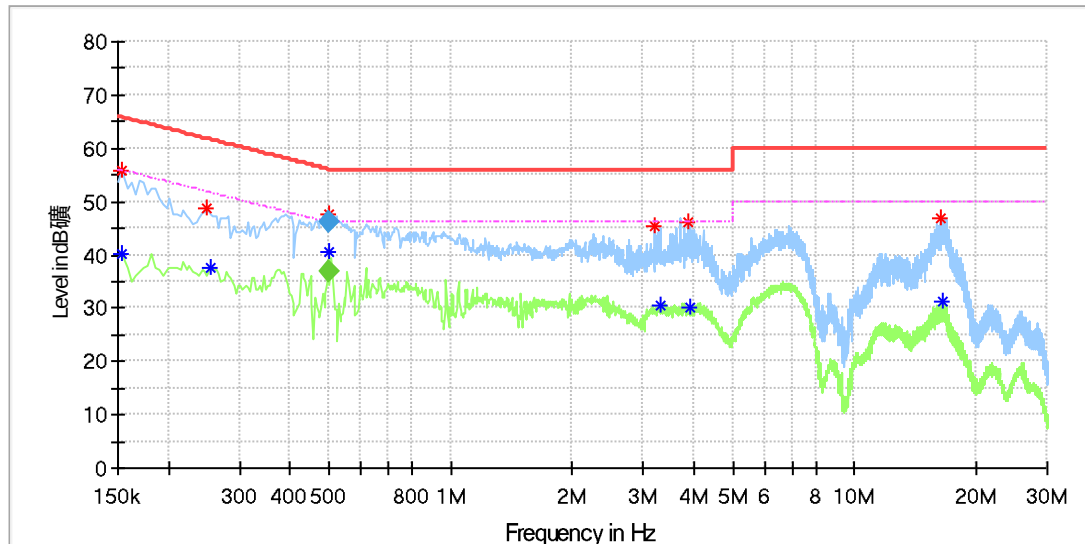
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.182000	---	40.04	54.39	14.36	L1	9.7
0.190000	52.16	---	64.04	11.88	L1	9.8
0.484500	48.30	---	56.03	7.74	L1	9.9
0.512000	---	42.15	46.00	3.85	L1	9.9
1.032000	---	37.20	46.00	8.80	L1	9.7
1.044000	46.07	---	56.00	9.93	L1	9.7
3.220000	---	33.57	46.00	12.43	L1	9.9
3.312000	45.41	---	56.00	10.59	L1	9.9
6.324000	---	37.88	50.00	12.12	L1	9.9
6.328000	47.71	---	60.00	12.29	L1	9.9
16.782500	---	38.65	50.00	11.35	L1	10.3
17.050500	54.27	---	60.00	5.73	L1	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.484500	45.36	---	56.26	10.90	1000.0	9.000	L1	9.9
0.512000	---	36.36	46.00	9.64	1000.0	9.000	L1	9.9
16.782500	---	37.41	50.00	12.59	1000.0	9.000	L1	10.3
17.050500	47.99	---	60.00	12.01	1000.0	9.000	L1	10.3

EUT Information

EUT Name: Lenovo Wireless VoIP Headset
Order Number: 168456688
Model: LB310
Test Mode: BT link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Steven Lan/Gary Chen
Tem./Hum./Pressure: 21.3°C/50.8%/101kPa
Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	40.20	55.78	15.59	N	9.8
0.154000	55.83	---	65.78	9.95	N	9.8
0.250000	48.60	---	61.76	13.15	N	9.7
0.254000	---	37.63	51.63	13.99	N	9.7
0.500000	---	40.64	46.00	5.36	N	9.7
0.500000	47.48	---	56.00	8.52	N	9.7
3.216000	45.36	---	56.00	10.64	N	10.0
3.292000	---	30.47	46.00	15.53	N	10.0
3.856000	45.96	---	56.00	10.04	N	10.0
3.900000	---	30.26	46.00	15.74	N	10.0
16.288000	46.74	---	60.00	13.26	N	10.2
16.600000	---	31.20	50.00	18.80	N	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.500000	---	36.97	46.00	9.03	1000.0	9.000	N	9.7
0.500000	46.04	---	56.00	9.96	1000.0	9.000	N	9.7