

Appendix A: Test Results of Bluetooth BR & EDR (Soundbar)

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Appendix A.1: Test Results of Number of Hopping Frequency

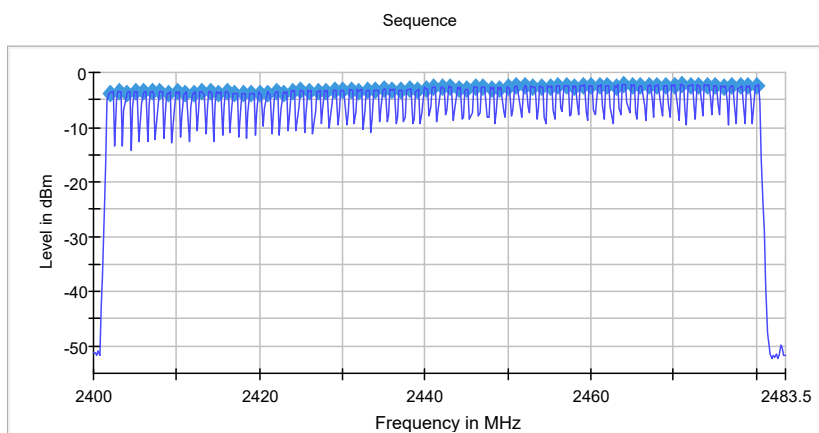
BR mode (DH5)

Hopping Frequencies (frequency independent; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v04

Channels

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



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
SweepTime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	69 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.49 dB	0.50 dB

EDR mode (3-DH5)

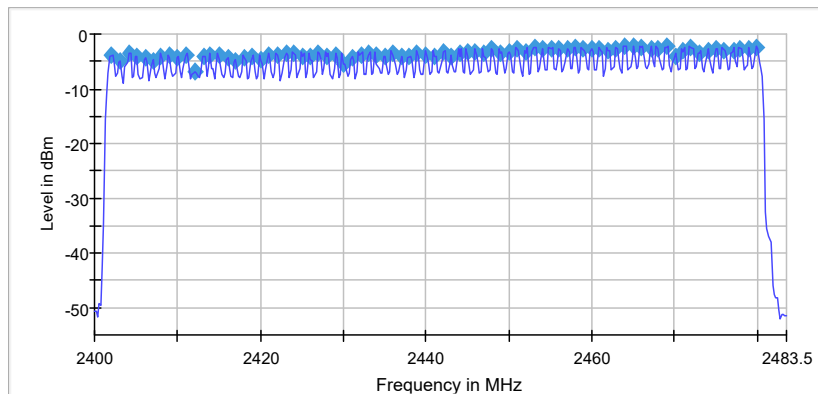
Hopping Frequencies (frequency independent; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v04

Channels

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

Sequence



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
SweepTime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	96 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.21 dB	0.50 dB

Appendix A.2: Test Results of Time of Occupancy

BR mode (DH1)

Time of Channel Occupancy (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	79	82.560	-10.0

Periode

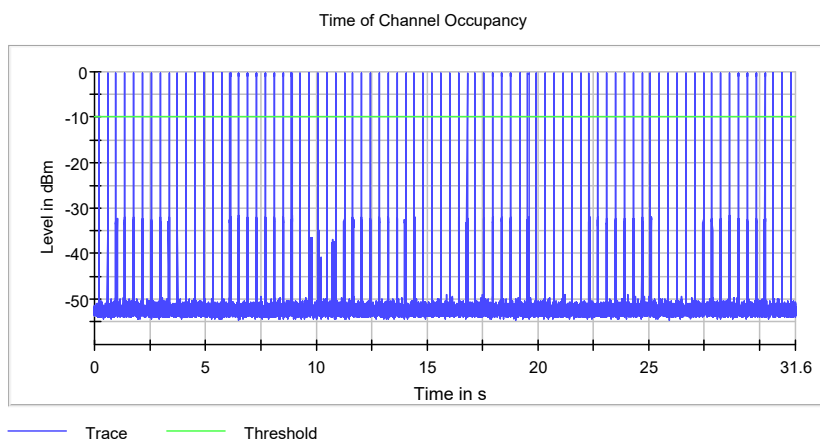
Min (ms)	Max (ms)	Mean (ms)
393.740	397.490	395.134

Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.76	1.170	400.000	0.000	1.031

DwellTime

Min (ms)	Max (ms)	Mean (ms)
1.630	2.890	2.502



BR mode (DH3)

Time of Channel Occupancy(2) (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	62	205.420	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
493.740	524.980	502.569

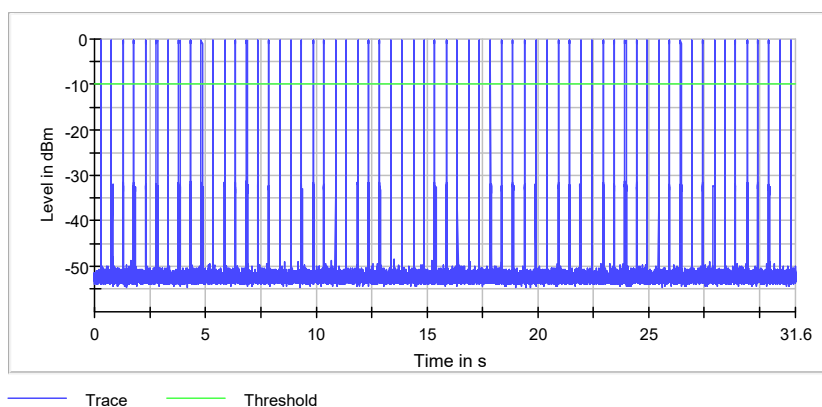
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
3.260	3.270	400.000	0.000	3.260

DwellTime

Min (ms)	Max (ms)	Mean (ms)
4.130	4.130	4.130

Time of Channel Occupancy(2)



BR mode (DH5)

Time of Channel Occupancy(3) (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	43	253.260	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
694.980	727.480	715.100

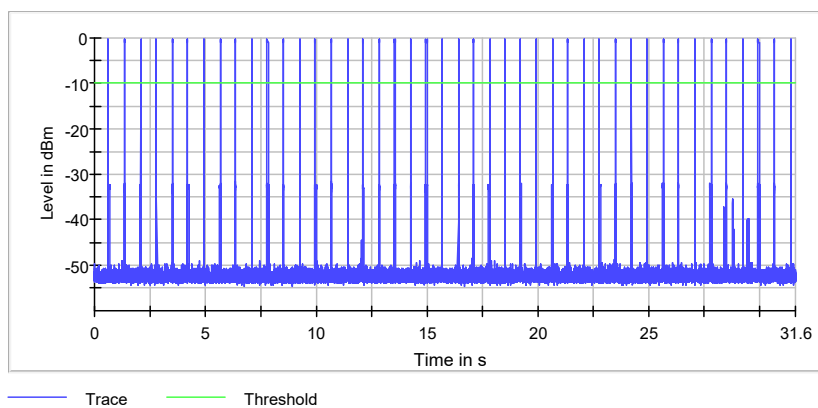
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
5.740	5.760	400.000	0.000	5.756

DwellTime

Min (ms)	Max (ms)	Mean (ms)
6.620	6.630	6.628

Time of Channel Occupancy(3)



EDR mode (3-DH1)

Time of Channel Occupancy (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	79	72.950	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
393.730	397.490	395.102

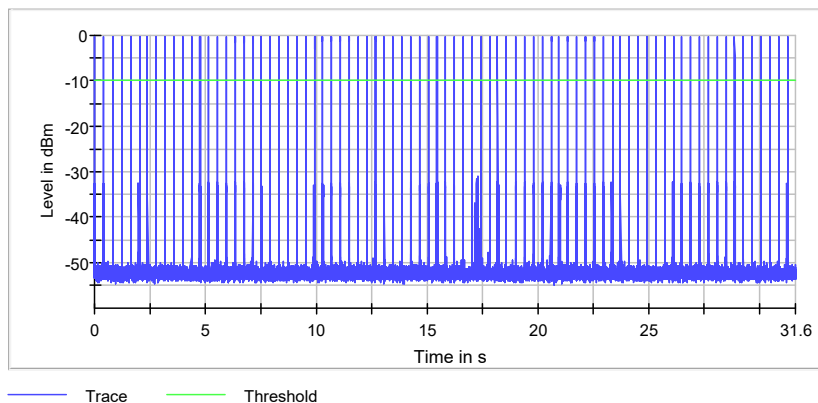
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.55	1.150	400.000	0.000	0.914

DwellTime

Min (ms)	Max (ms)	Mean (ms)
1.630	2.890	2.571

Time of Channel Occupancy



EDR mode (3-DH3)

Time of Channel Occupancy(2) (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	62	165.240	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
493.740	513.730	500.745

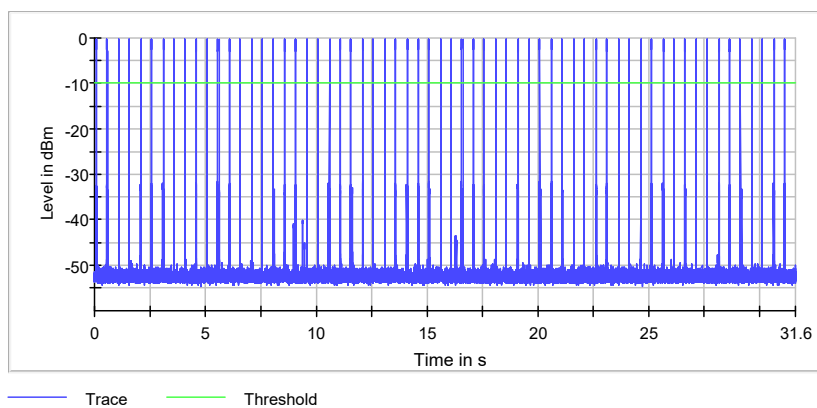
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
2.330	2.790	400.000	0.000	2.621

DwellTime

Min (ms)	Max (ms)	Mean (ms)
4.070	4.140	4.127

Time of Channel Occupancy(2)



EDR mode (3-DH5)

Time of Channel Occupancy(3) (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	44	206.070	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
703.730	723.730	714.661

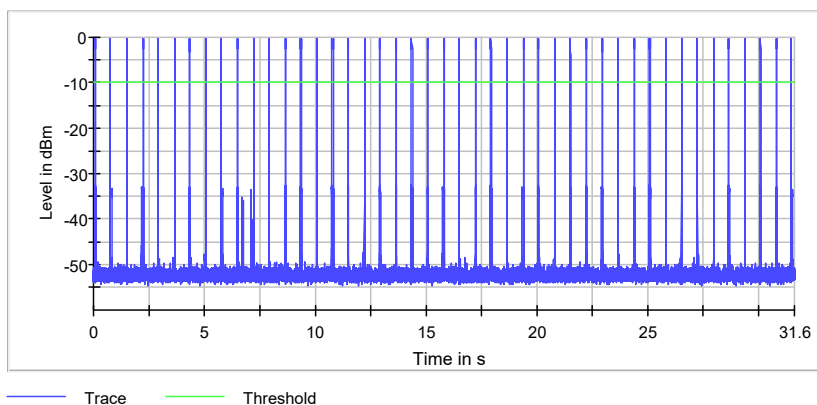
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
4.260	4.910	400.000	0.000	4.578

DwellTime

Min (ms)	Max (ms)	Mean (ms)
6.630	6.650	6.640

Time of Channel Occupancy(3)



Appendix A.3: Test Results of 20dB Bandwidth

BR mode (DH5)

Emission Bandwidth 20 dB (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

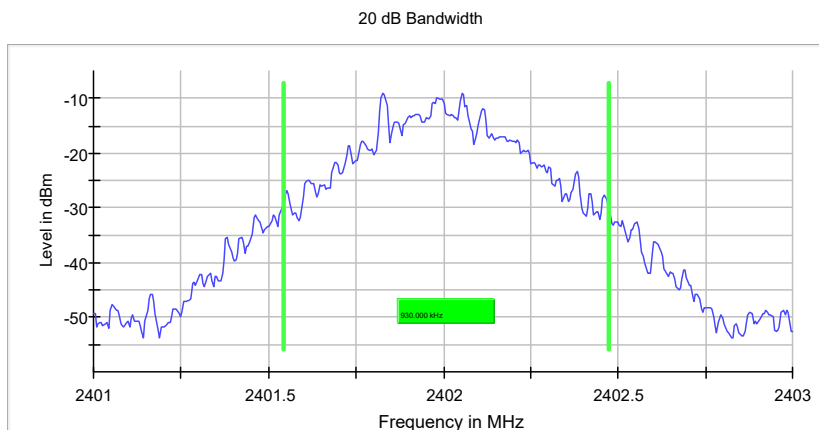
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.930000	---	---	2401.542500	2402.472500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-9.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.50 dB

Emission Bandwidth 20 dB (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

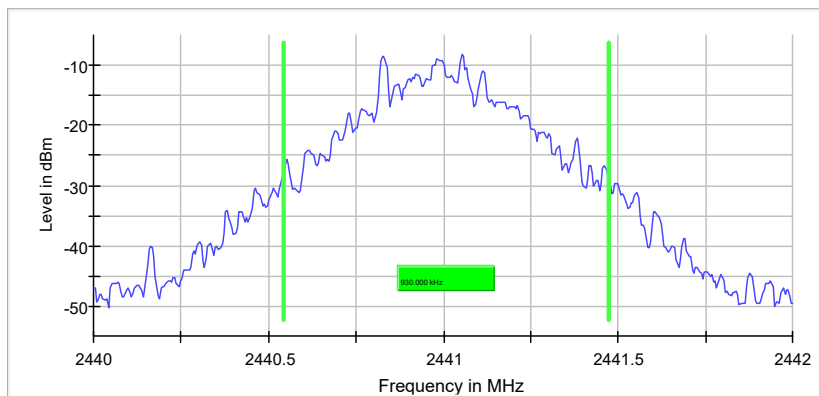
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.930000	---	---	2440.542500	2441.472500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-8.2	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

Emission Bandwidth 20 dB (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

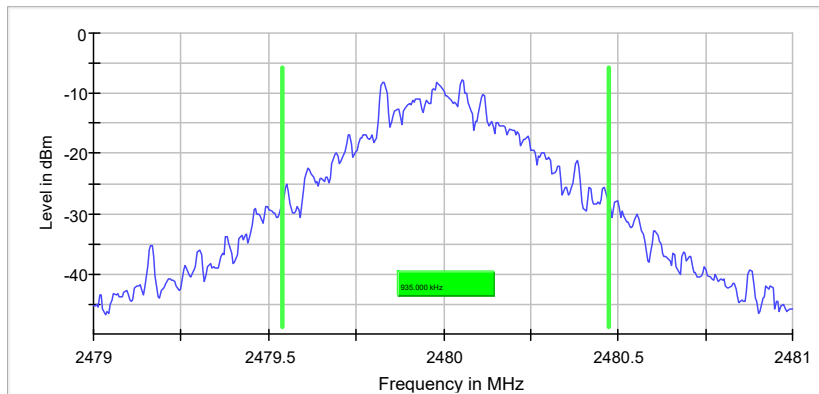
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.935000	---	---	2479.537500	2480.472500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-7.7	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
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	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.50 dB

EDR mode (3-DH5)

Emission Bandwidth 20 dB (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

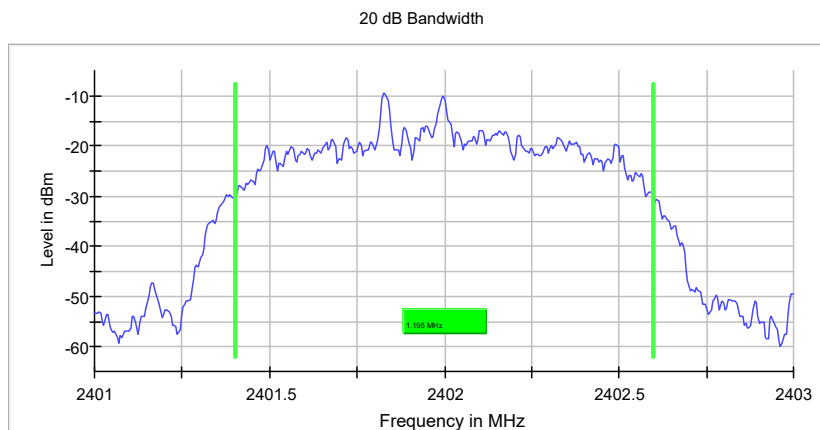
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.195000	---	---	2401.402500	2402.597500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-9.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
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	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.19 dB	0.50 dB

Emission Bandwidth 20 dB (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

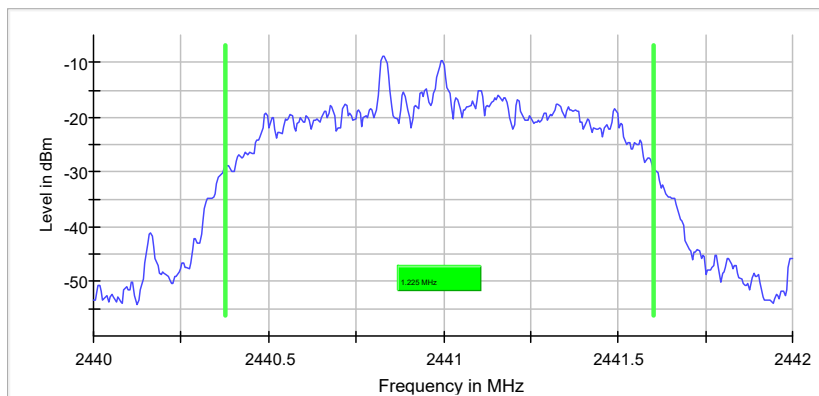
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.225000	---	---	2440.377500	2441.602500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-8.8	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
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	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

Emission Bandwidth 20 dB (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04

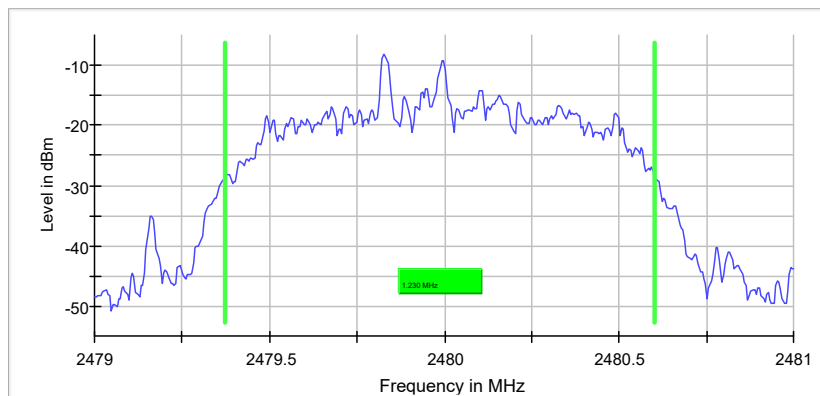
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.230000	---	---	2479.372500	2480.602500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-8.2	PASS

20 dB Bandwidth

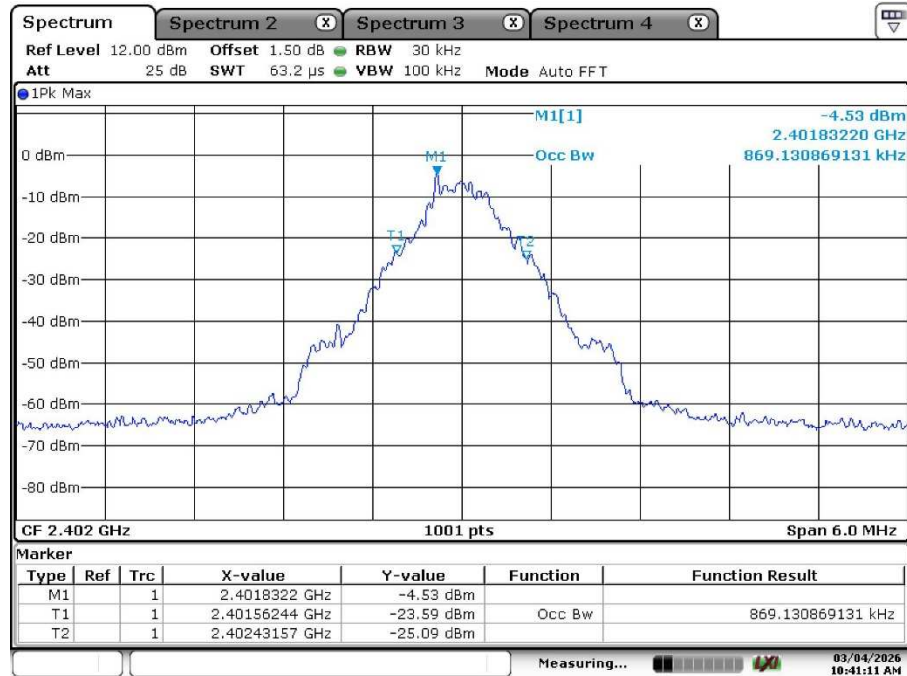


Measurement

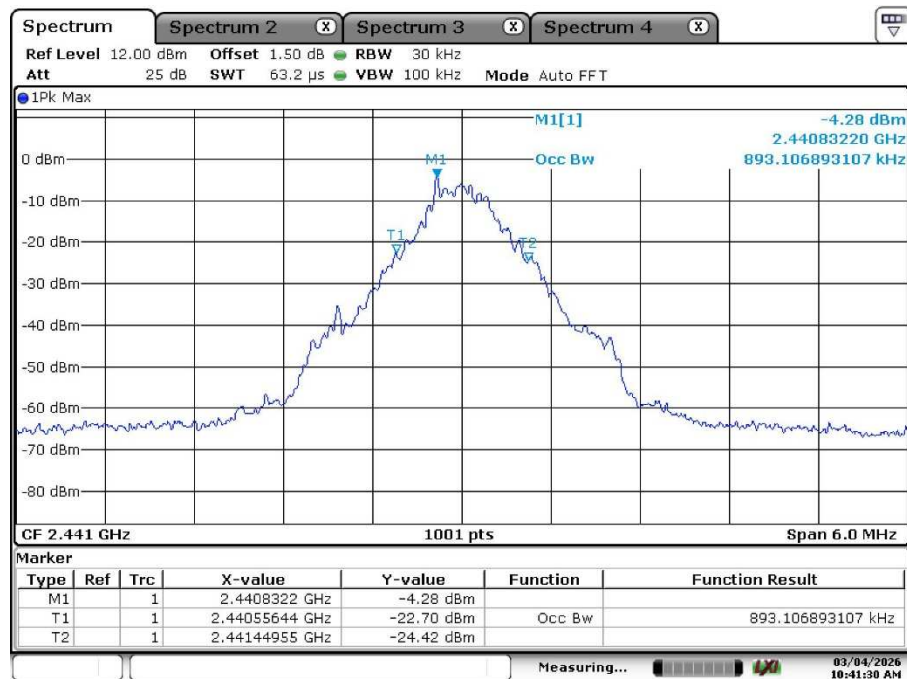
Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.50 dB

Appendix A.4: Test Results of 99% Bandwidth

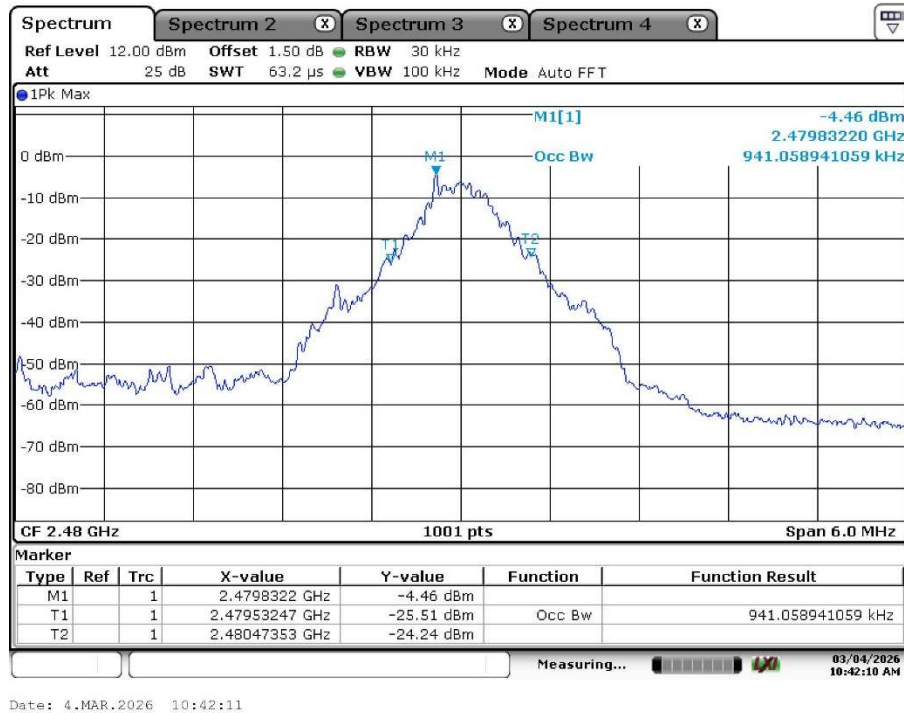
BR mode (DH5)



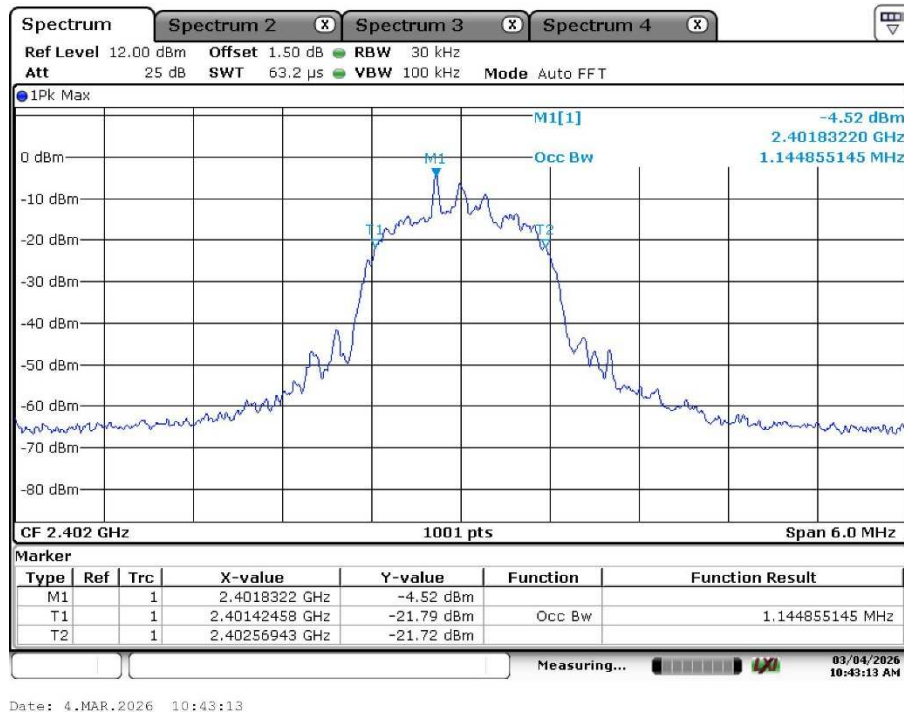
Date: 4.MAR.2026 10:41:12

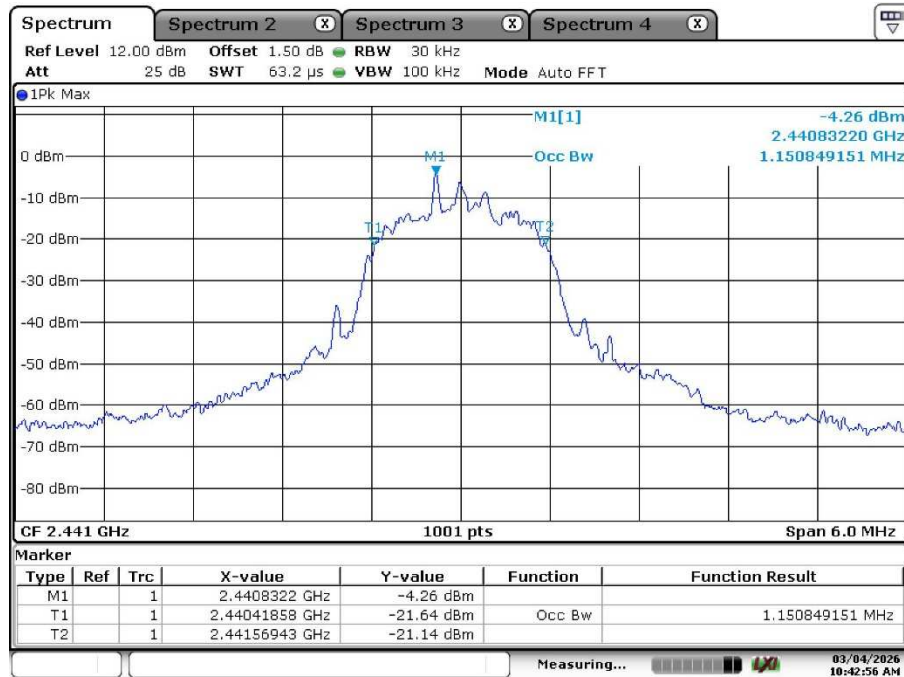


Date: 4.MAR.2026 10:41:30

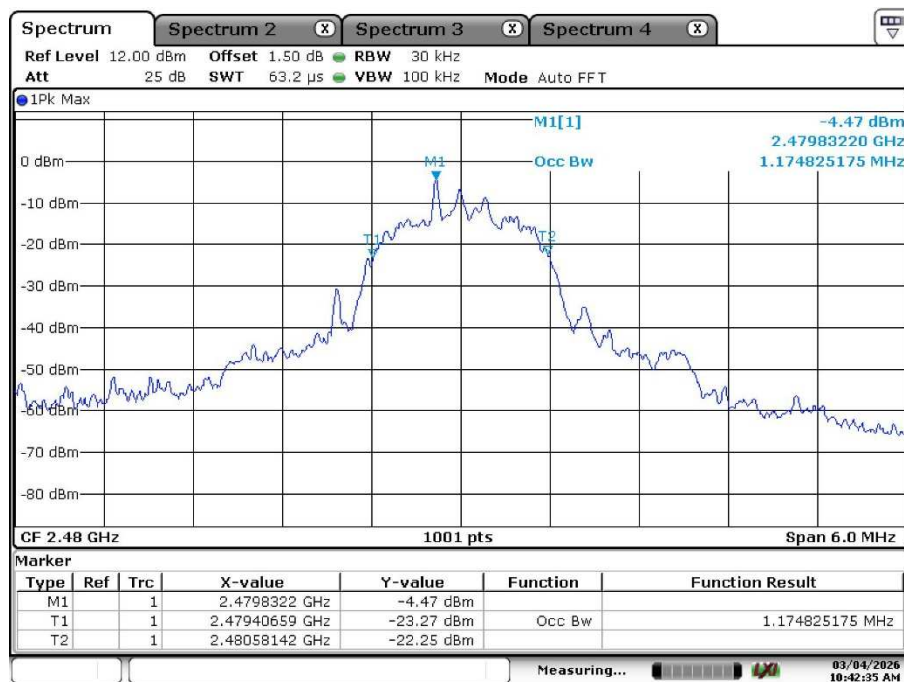


EDR mode (3-DH5)





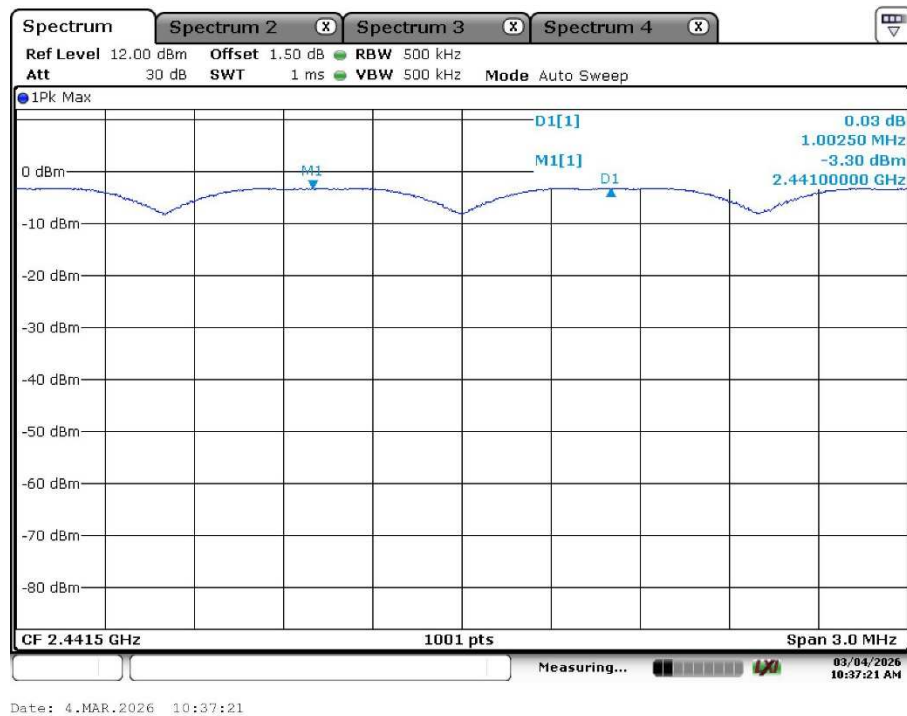
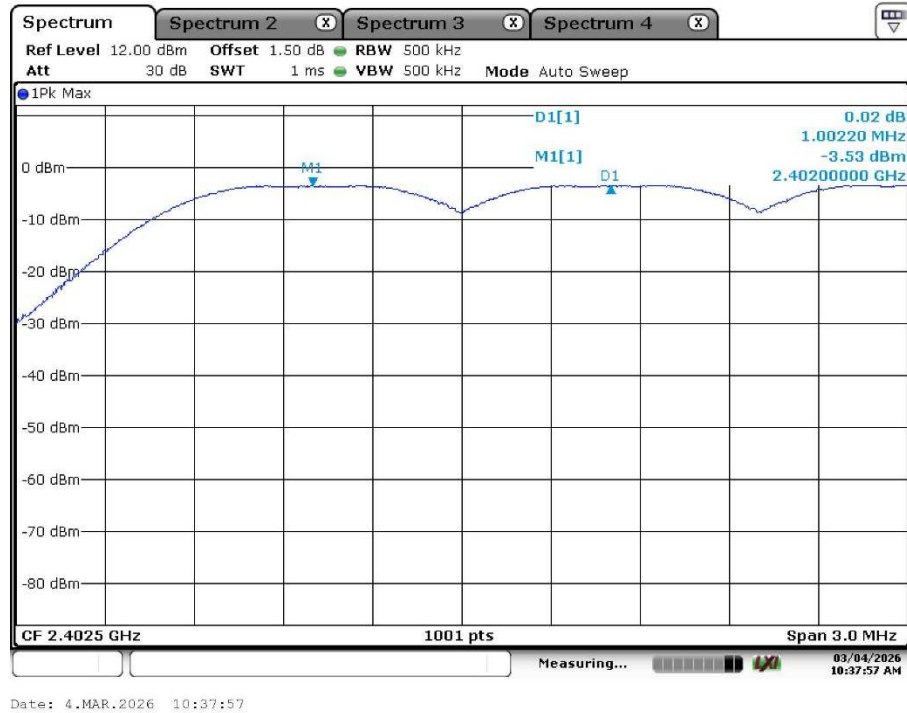
Date: 4.MAR.2026 10:42:57

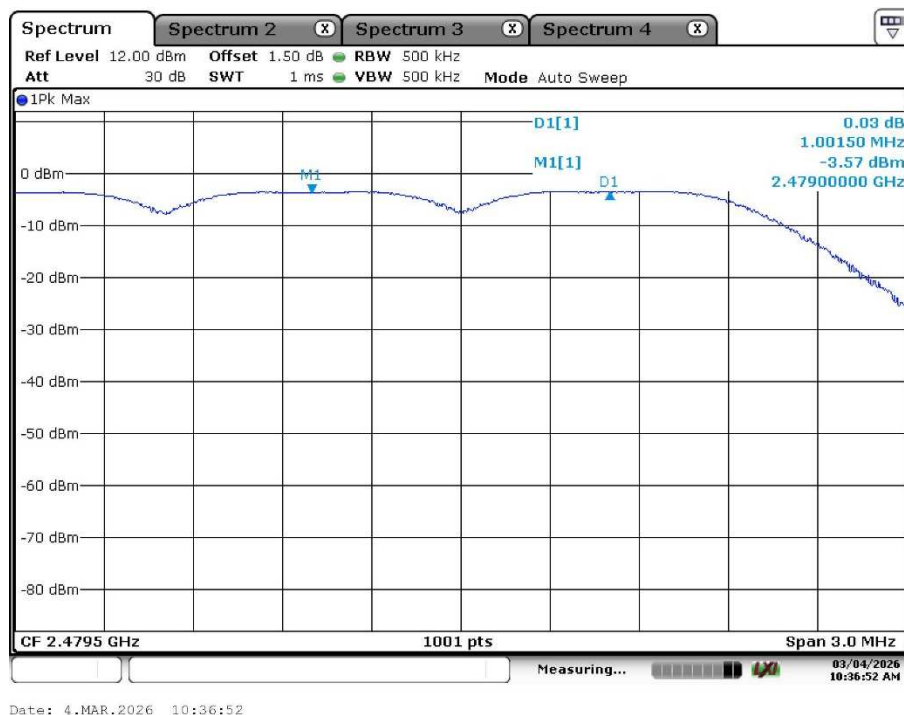


Date: 4.MAR.2026 10:42:35

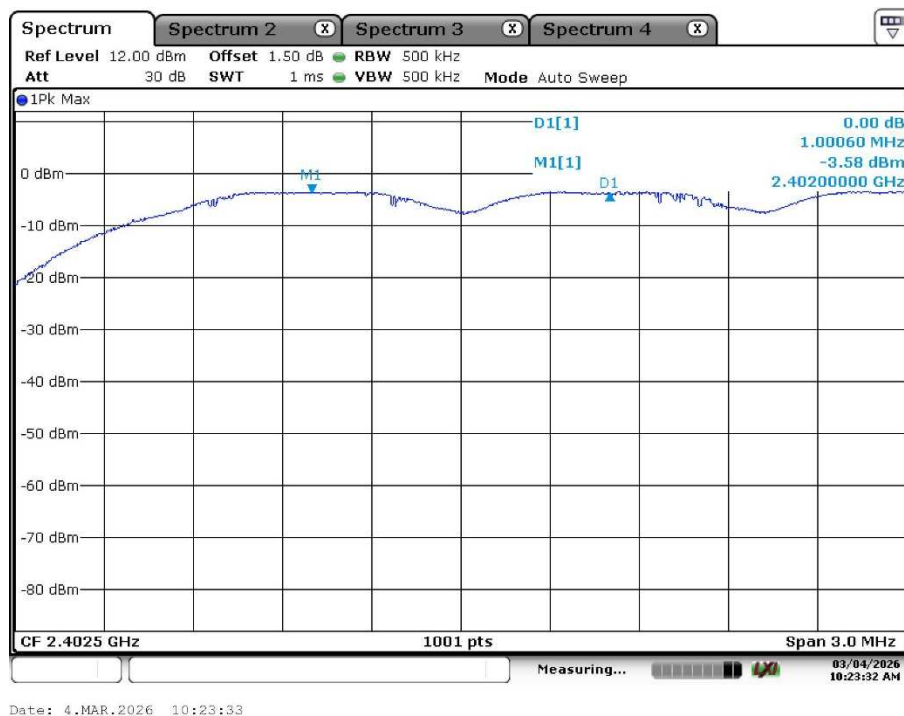
Appendix A.5: Test Results of Carrier Frequency Separation

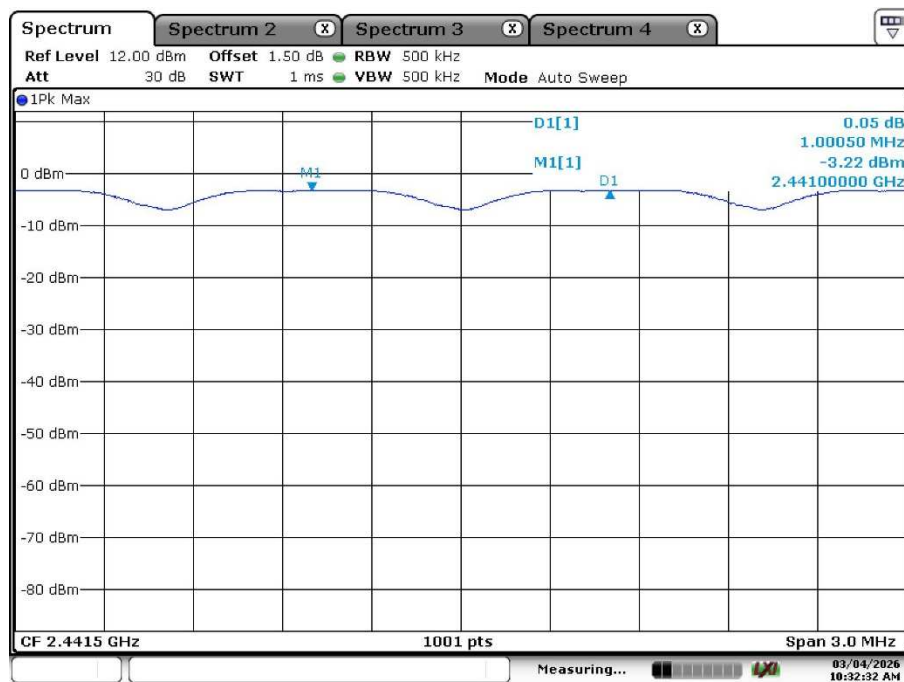
BR mode (DH5)



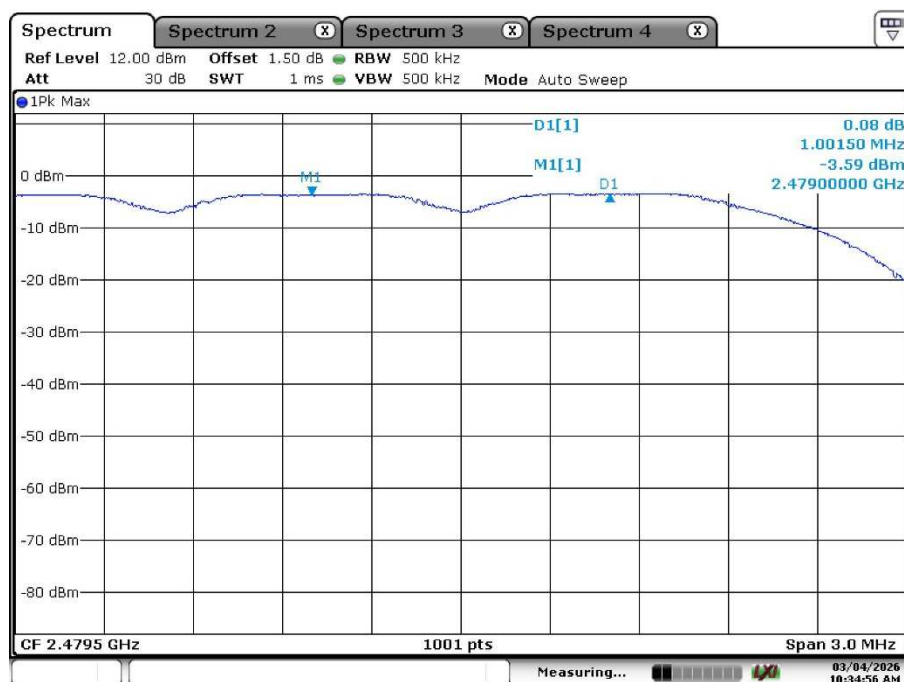


EDR mode (3-DH5)





Date: 4.MAR.2026 10:32:32



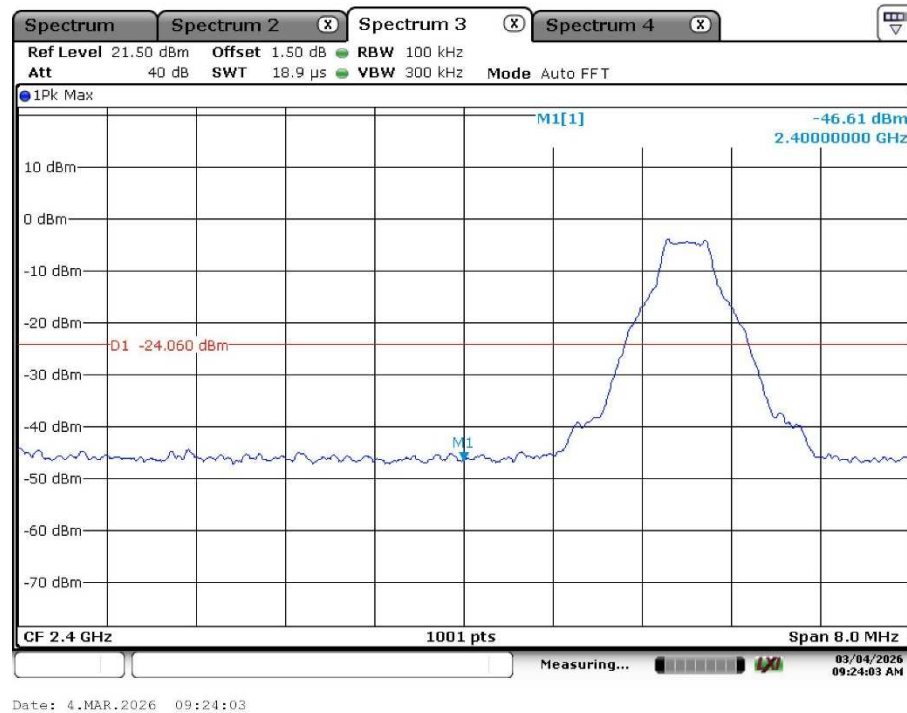
Date: 4.MAR.2026 10:34:56

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

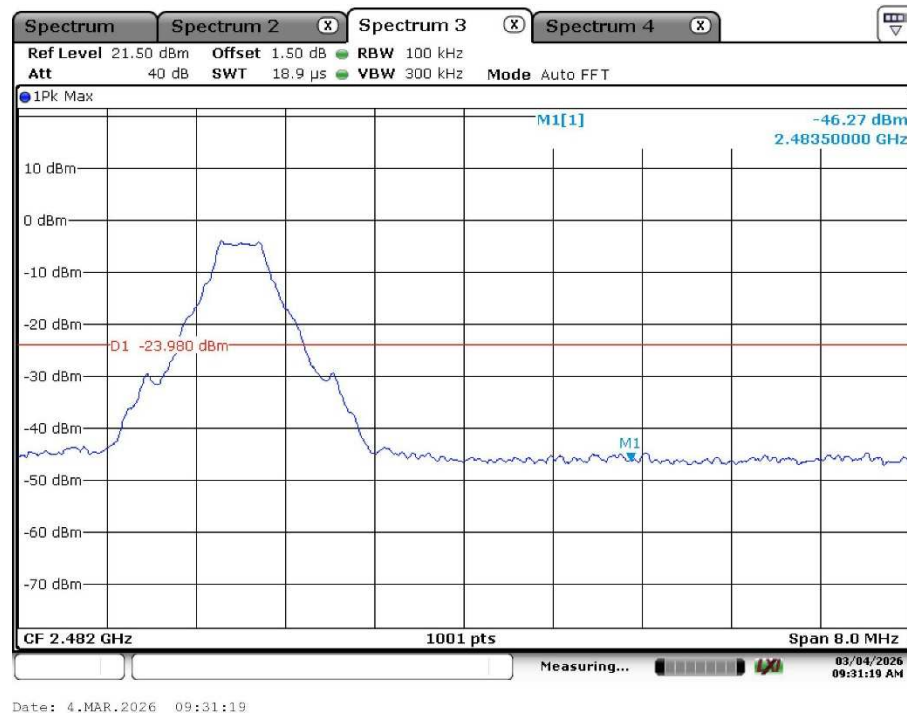
BR mode (DH5)

Fixed mode, Band Edge

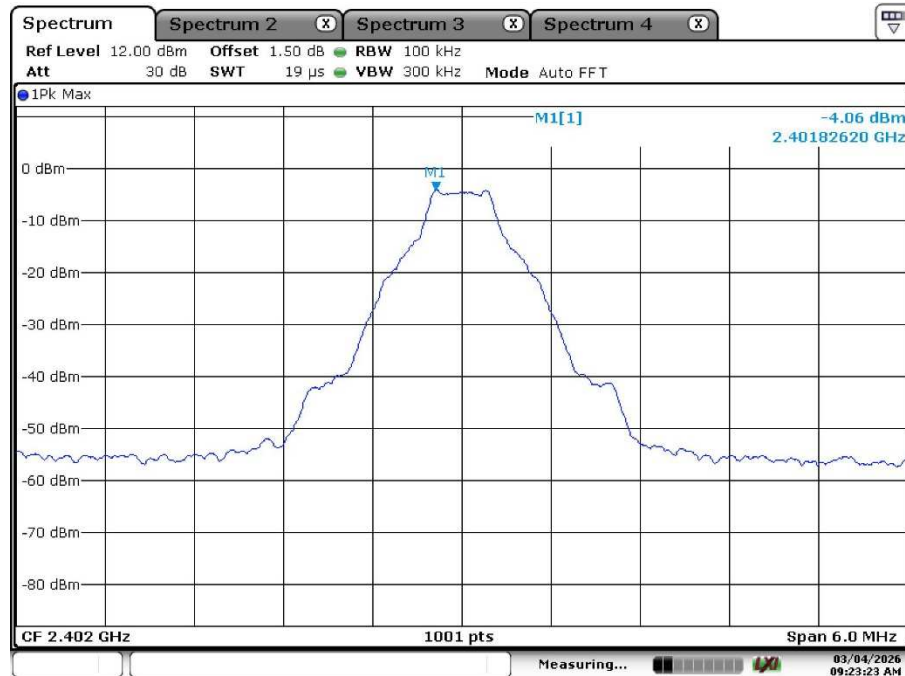
Low Channel



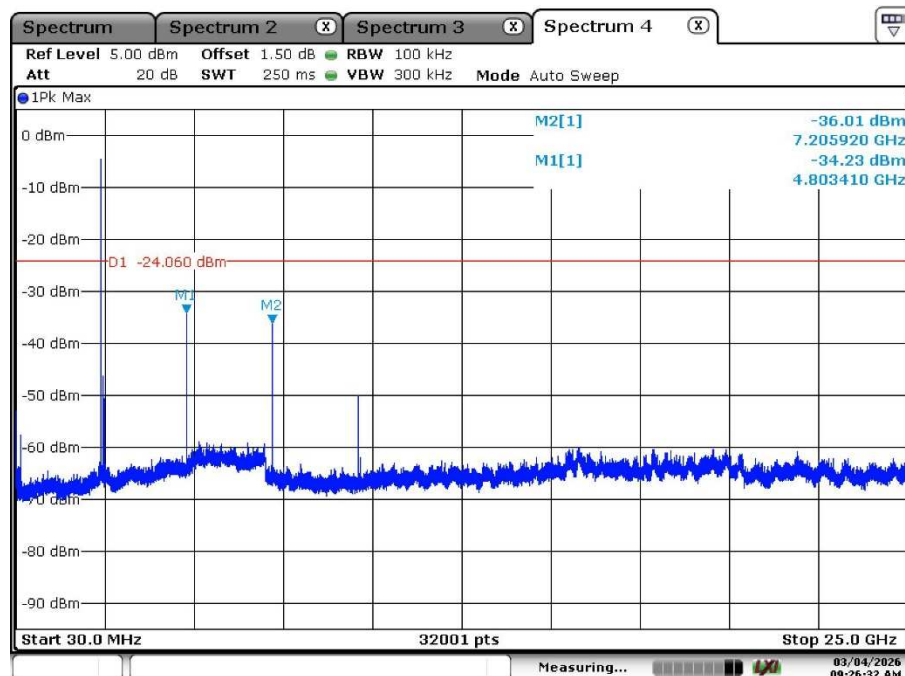
High Channel



Fixed mode, Conducted Spurious Emission
Low Channel

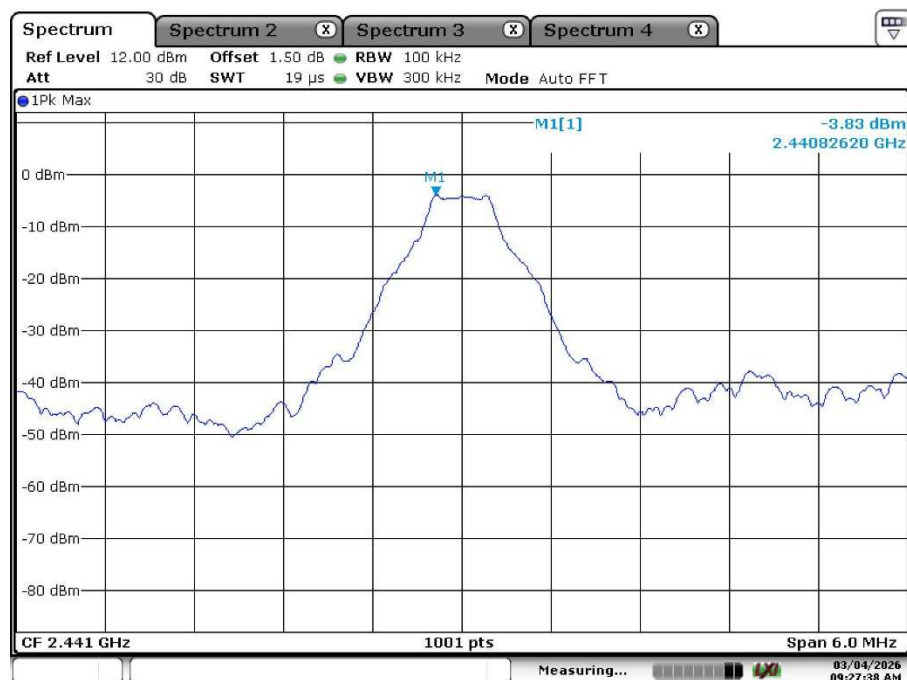


Date: 4.MAR.2026 09:23:23

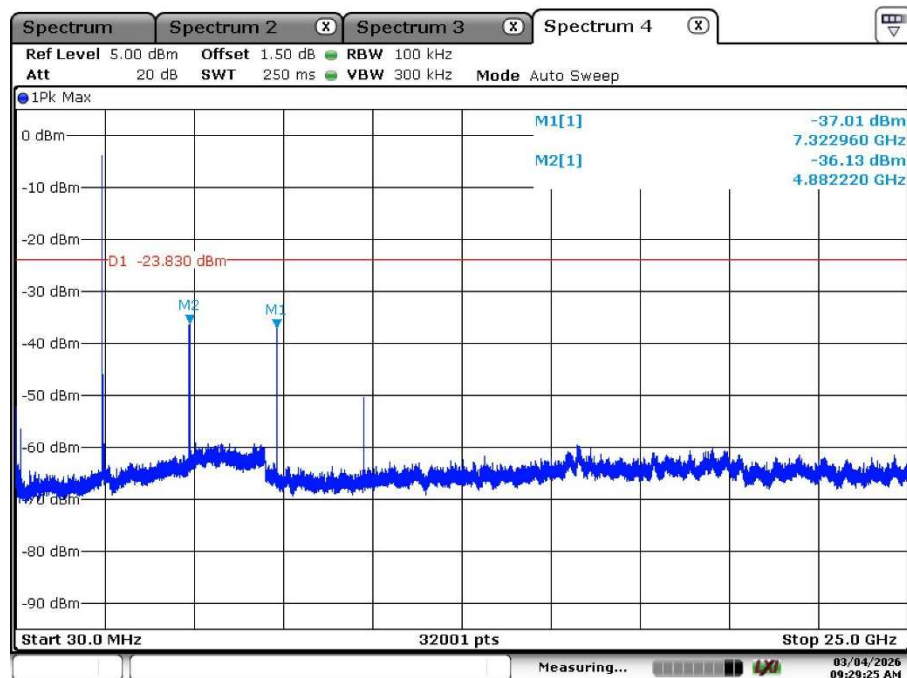


Date: 4.MAR.2026 09:26:32

Middle Channel

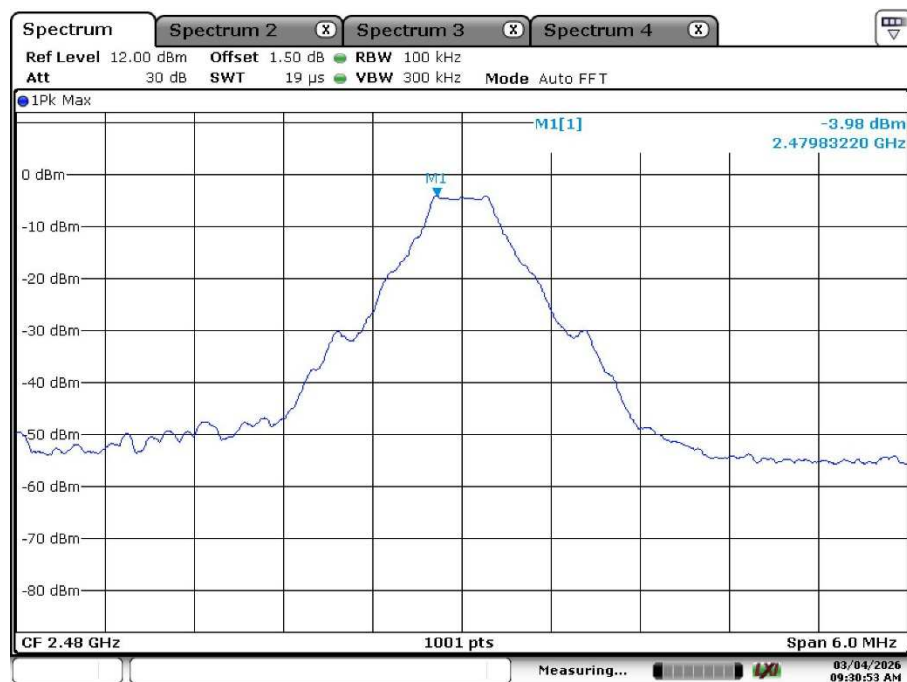


Date: 4.MAR.2026 09:27:38

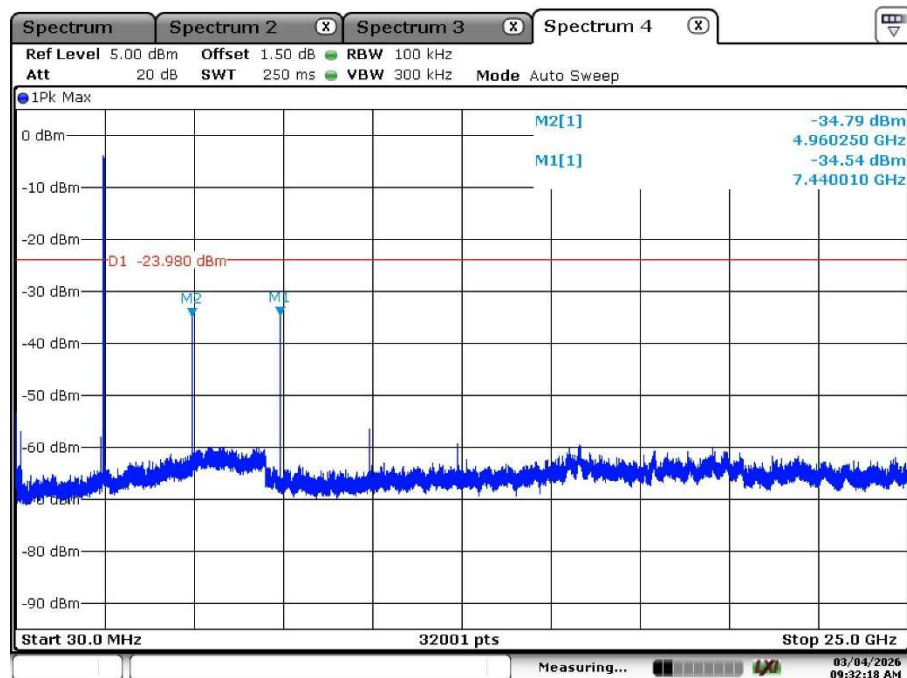


Date: 4.MAR.2026 09:29:25

High Channel



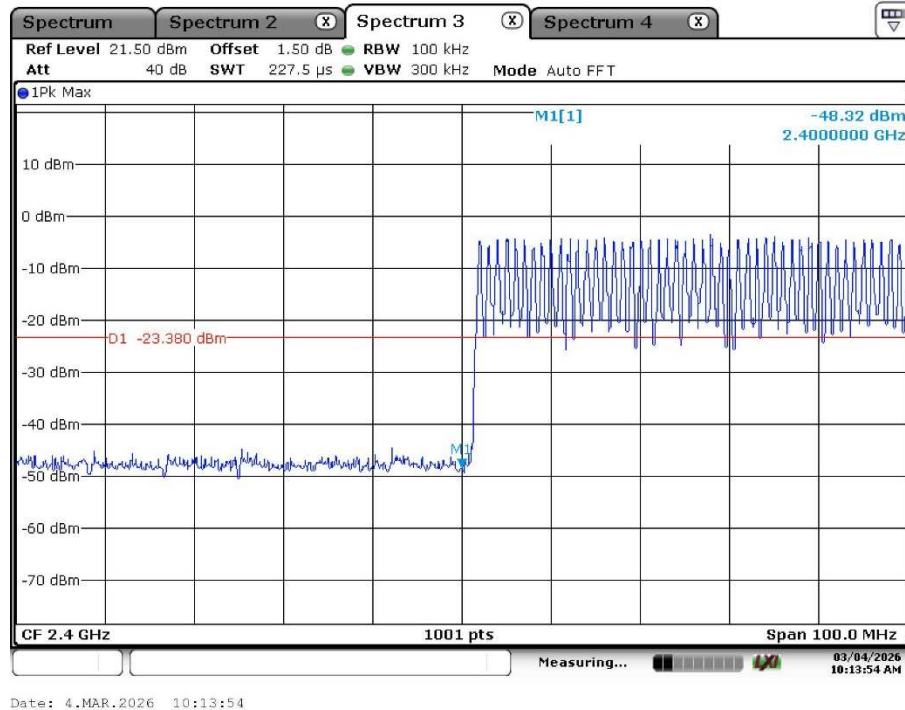
Date: 4.MAR.2026 09:30:53



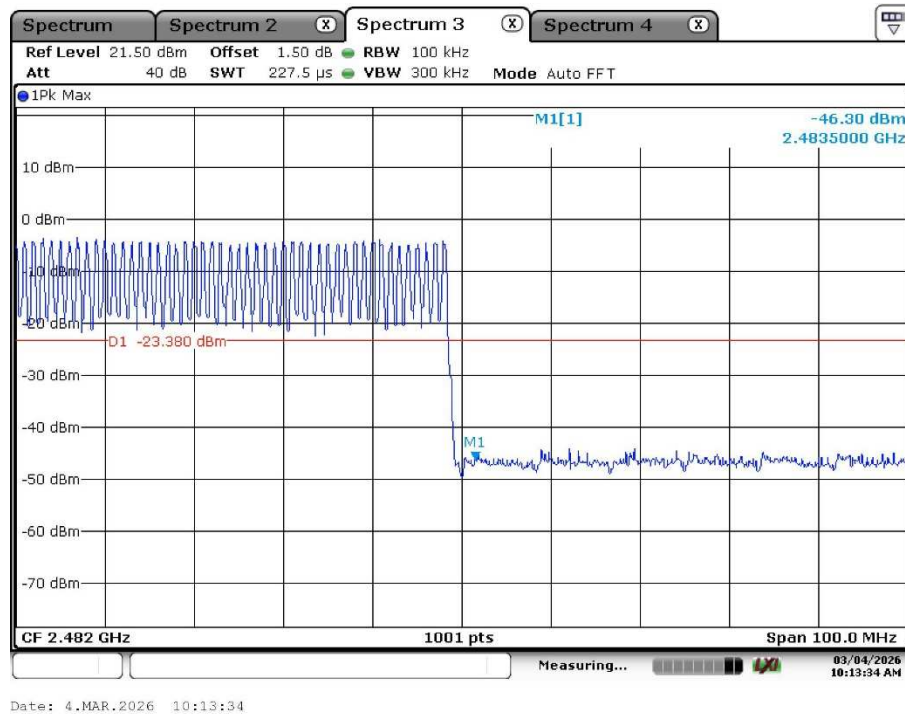
Date: 4.MAR.2026 09:32:18

Hopping Mode, Band Edge

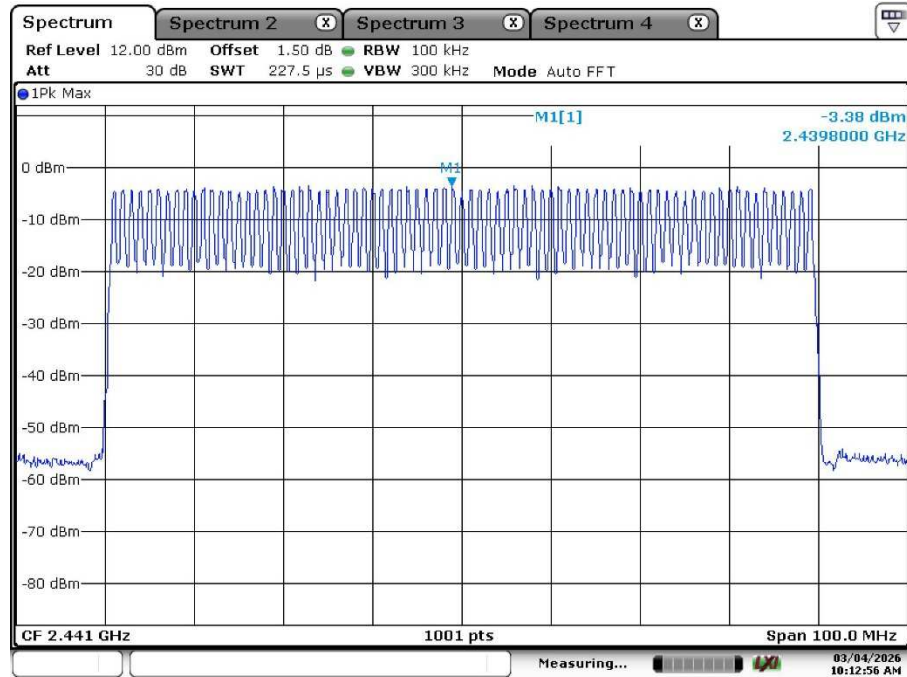
Low Channel



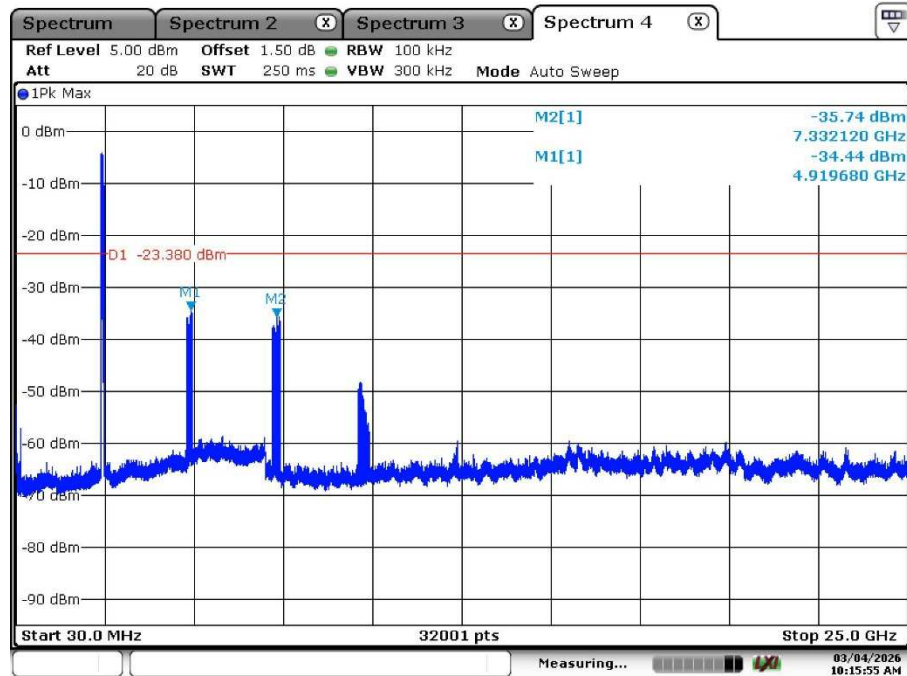
High Channel



Hopping Mode, Conducted Spurious Emission



Date: 4.MAR.2026 10:12:56

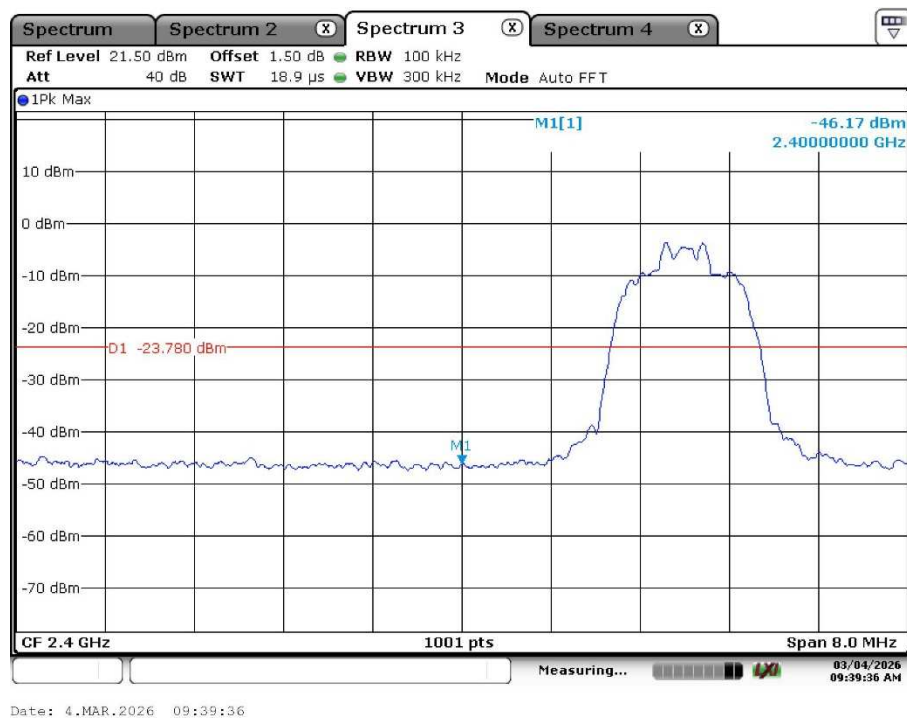


Date: 4.MAR.2026 10:15:55

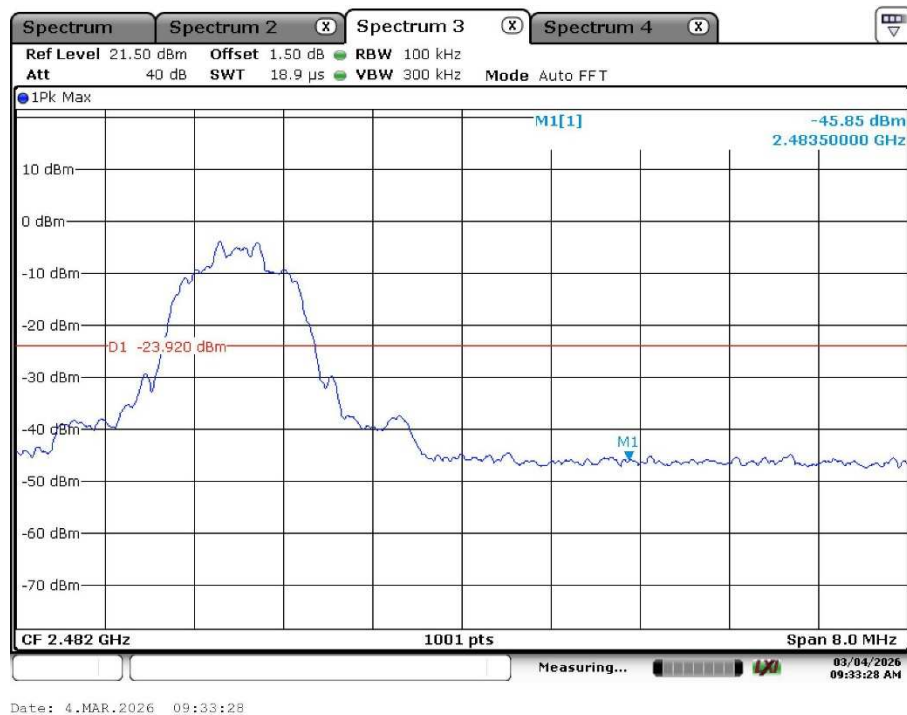
EDR mode (3-DH5)

Fixed mode, Band Edge

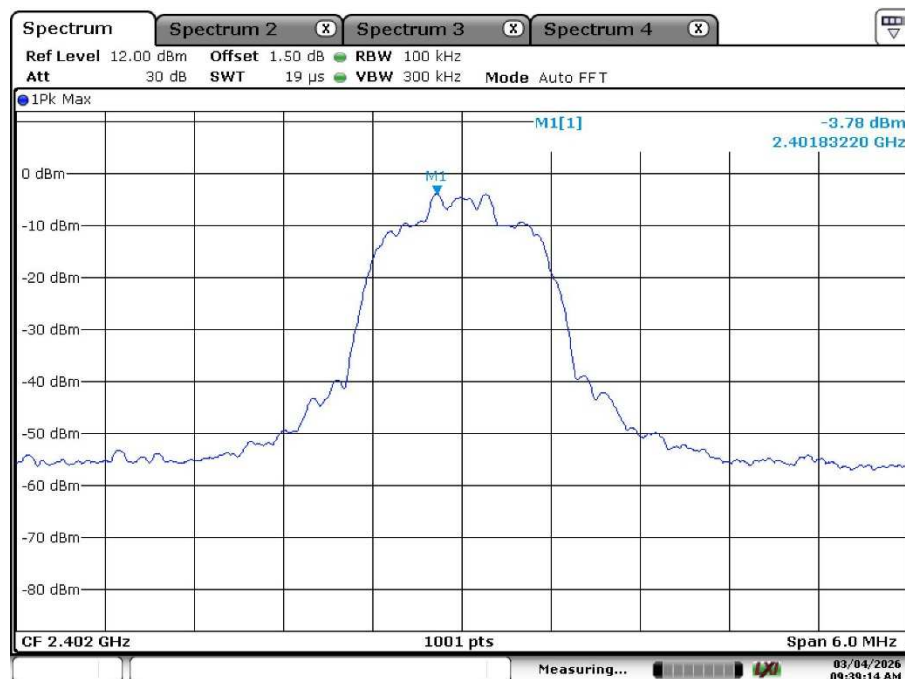
Low Channel



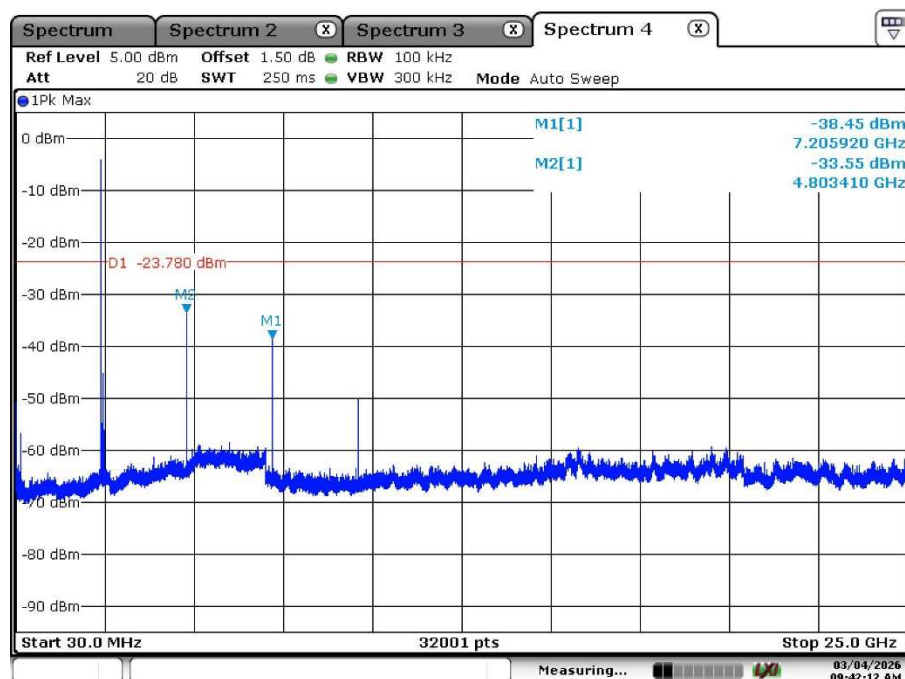
High Channel



Fixed mode, Conducted Spurious Emission
Low Channel

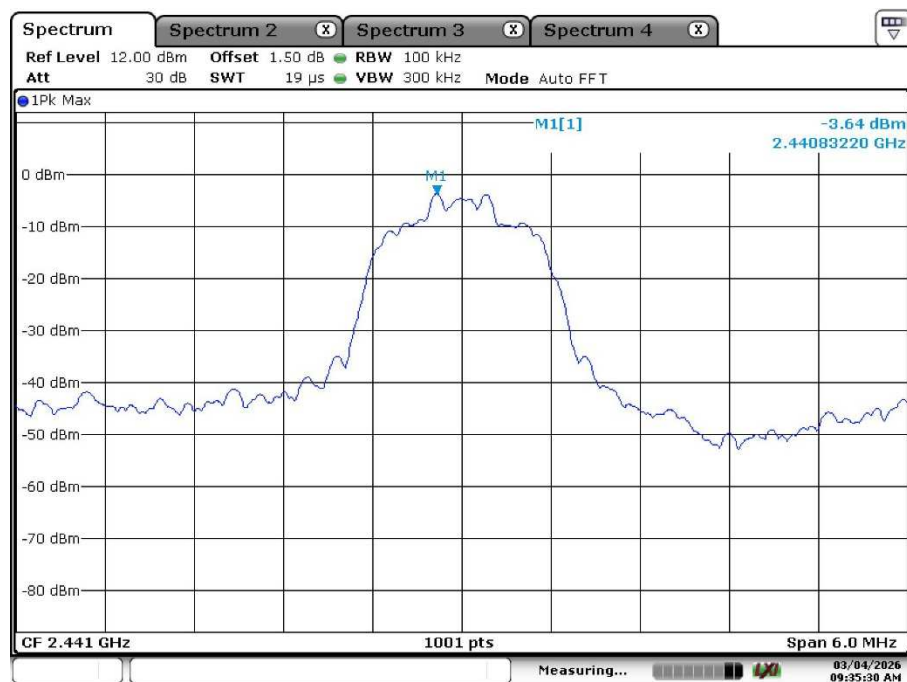


Date: 4.MAR.2026 09:39:14

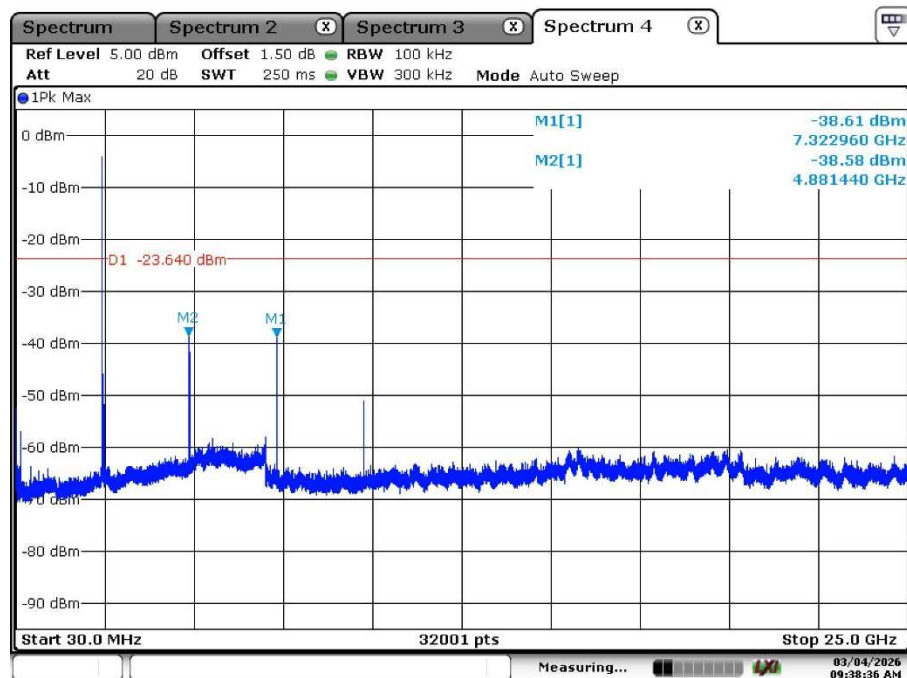


Date: 4.MAR.2026 09:42:12

Middle Channel



Date: 4.MAR.2026 09:35:30

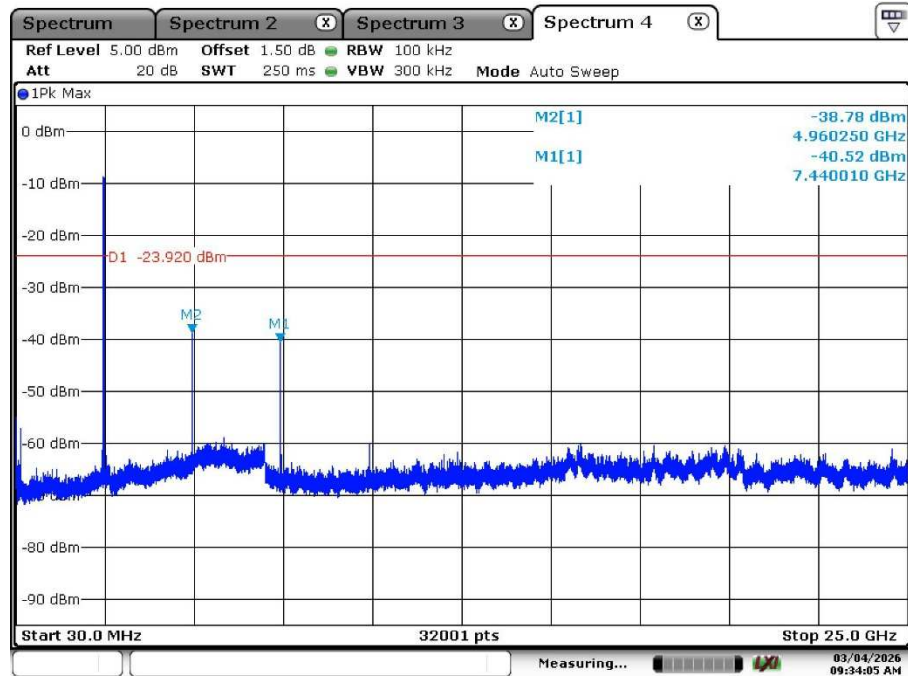


Date: 4.MAR.2026 09:38:36

High Channel



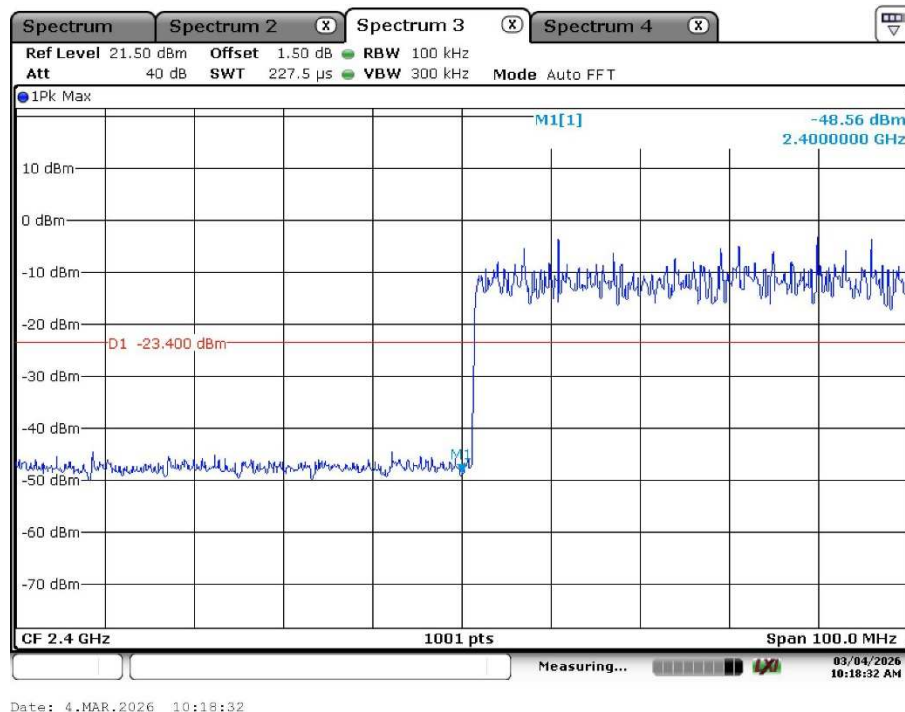
Date: 4.MAR.2026 09:33:11



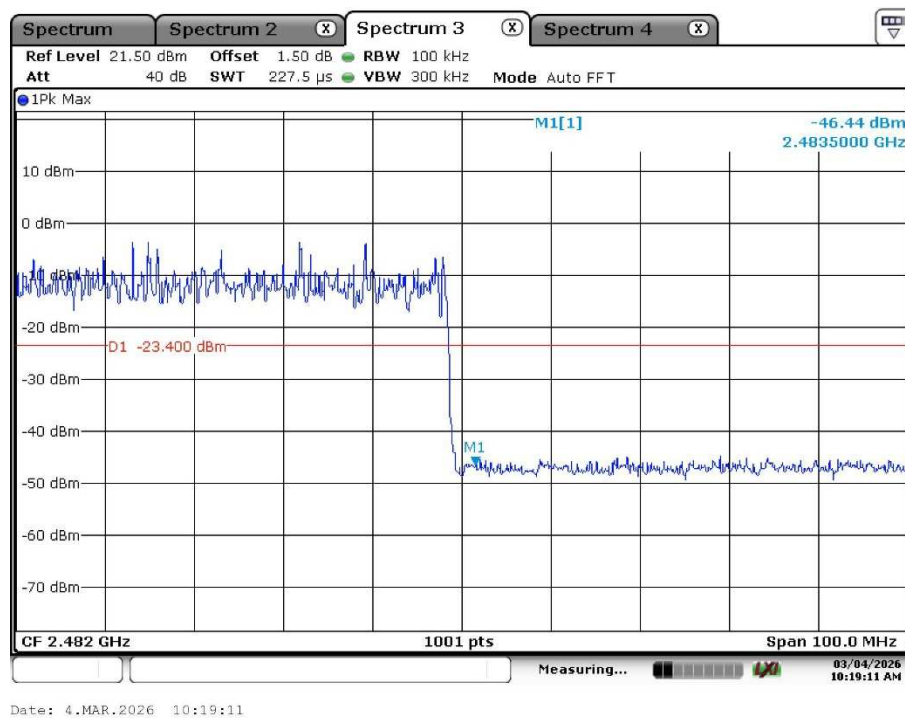
Date: 4.MAR.2026 09:34:05

Hopping Mode, Band Edge

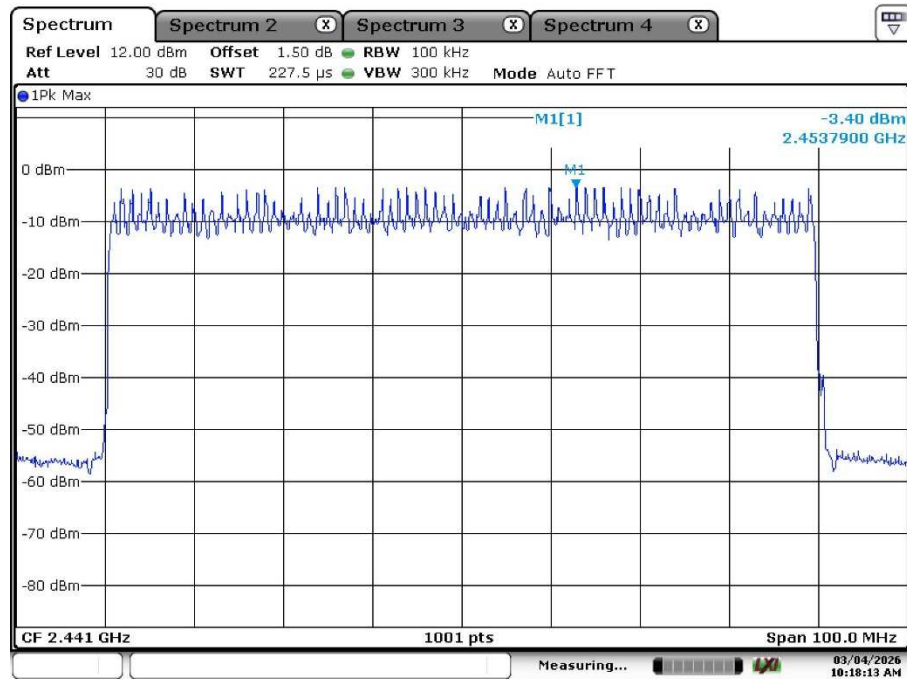
Low Channel



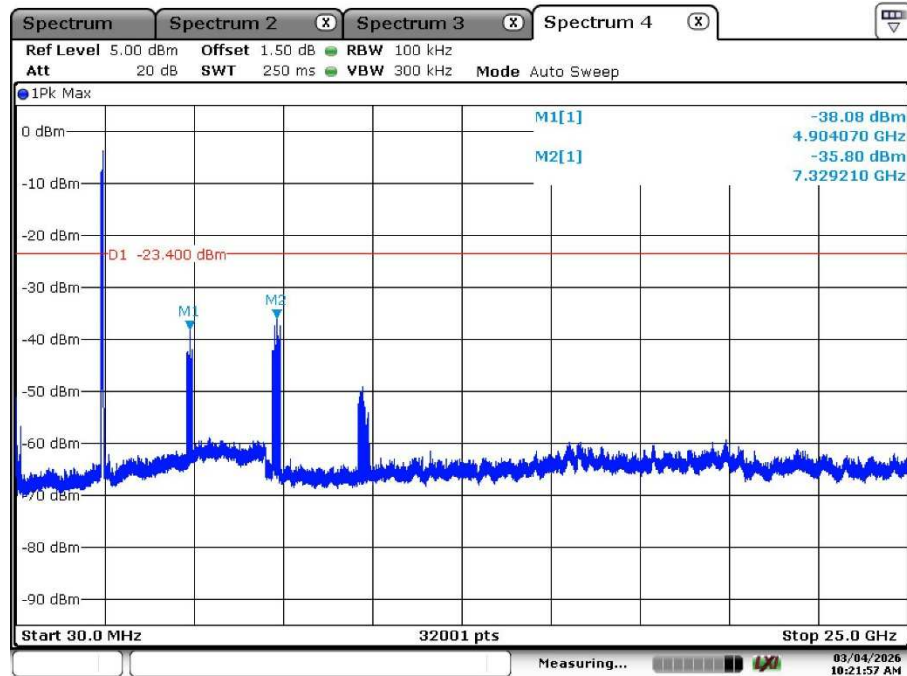
High Channel



Hopping Mode, Conducted Spurious Emission



Date: 4.MAR.2026 10:18:13



Date: 4.MAR.2026 10:21:57

Appendix A.7: Test Results of Radiated Spurious Emissions

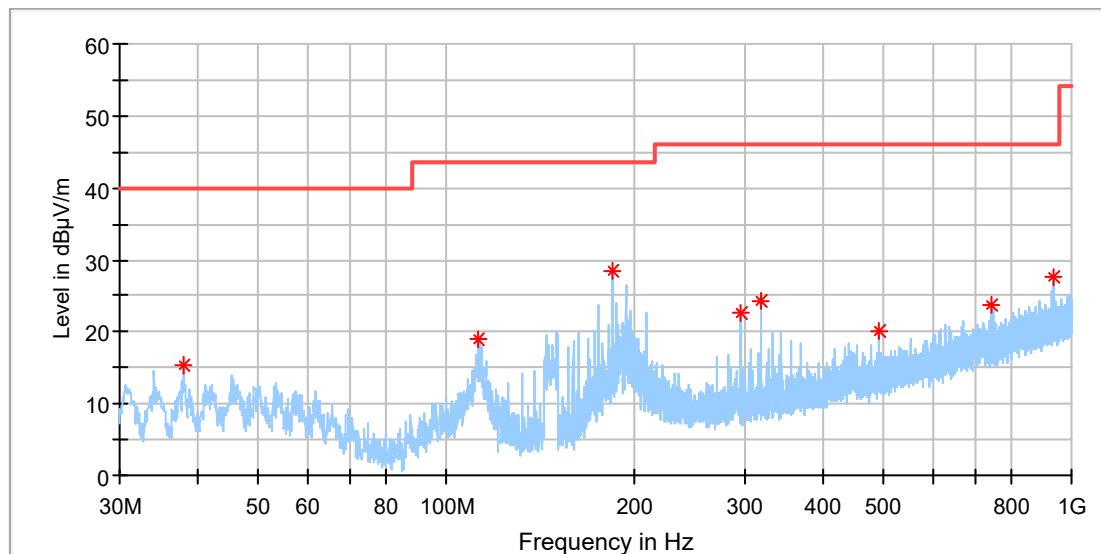
Note:

- 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:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

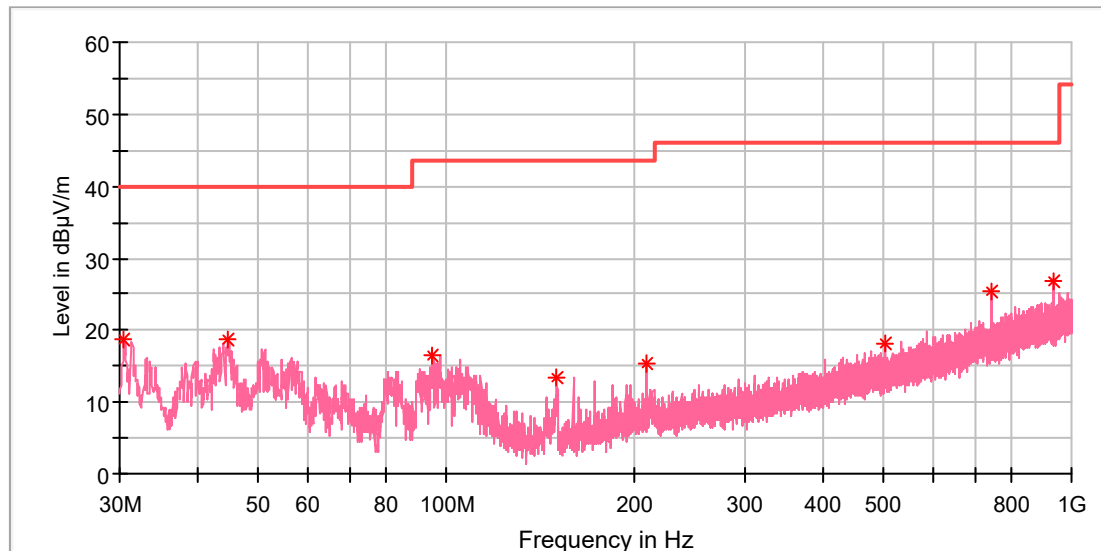
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.975556	15.35	40.00	24.65	100.0	H	134.0	-20.8
112.827222	18.97	43.50	24.53	100.0	H	265.0	-19.6
184.283889	28.34	43.50	15.16	100.0	H	19.0	-20.2
294.917778	22.56	46.00	23.44	100.0	H	112.0	-16.4
319.491111	24.35	46.00	21.65	100.0	H	316.0	-15.7
491.504444	20.08	46.00	25.92	100.0	H	49.0	-12.0
742.518889	23.82	46.00	22.18	100.0	H	49.0	-7.2
938.405000	27.69	46.00	18.31	100.0	H	347.0	-4.4

Final_Result

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

EUT Information

EUT Name: 2.1CH Soundbar with Wireless Subwoofer
Model: HS2100S
Test Mode: BR DH5_Mid channel
Order No/Sample No: 27219521/A004198499-003
Test Voltage: 120V/60Hz
Remark: Temp 22 Humi:55%
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)
30.485000	18.65	40.00	21.35	100.0	V	212.0	-23.0
44.819444	18.77	40.00	21.23	100.0	V	169.0	-19.0
94.774444	16.34	43.50	27.16	100.0	V	128.0	-19.9
150.333889	13.38	43.50	30.12	100.0	V	198.0	-22.3
208.911111	15.46	43.50	28.04	100.0	V	225.0	-18.9
503.791111	18.10	46.00	27.90	100.0	V	271.0	-11.8
742.518889	25.48	46.00	20.52	100.0	V	40.0	-7.2
938.405000	26.69	46.00	19.31	100.0	V	339.0	-4.4

Final Result

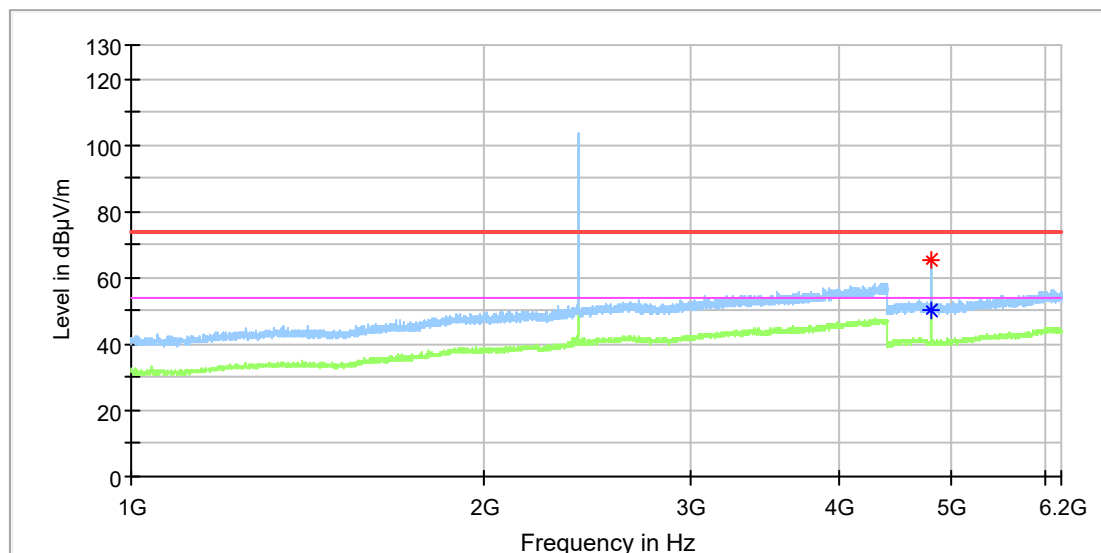
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

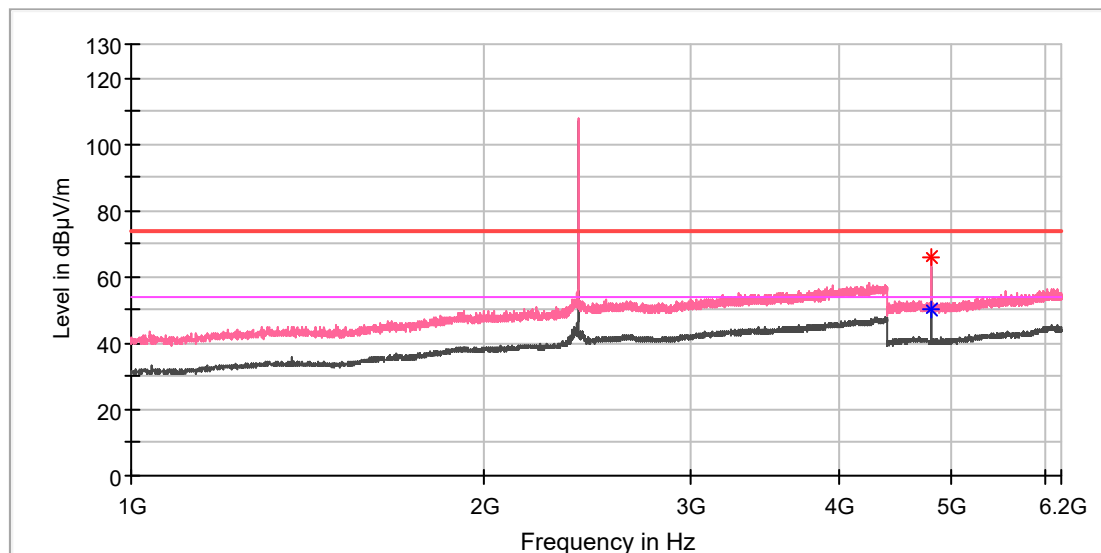
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.500000	---	50.28	54.00	3.72	150.0	H	287.0	13.3
4803.500000	65.01	---	74.00	8.99	150.0	H	287.0	13.3

Final Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

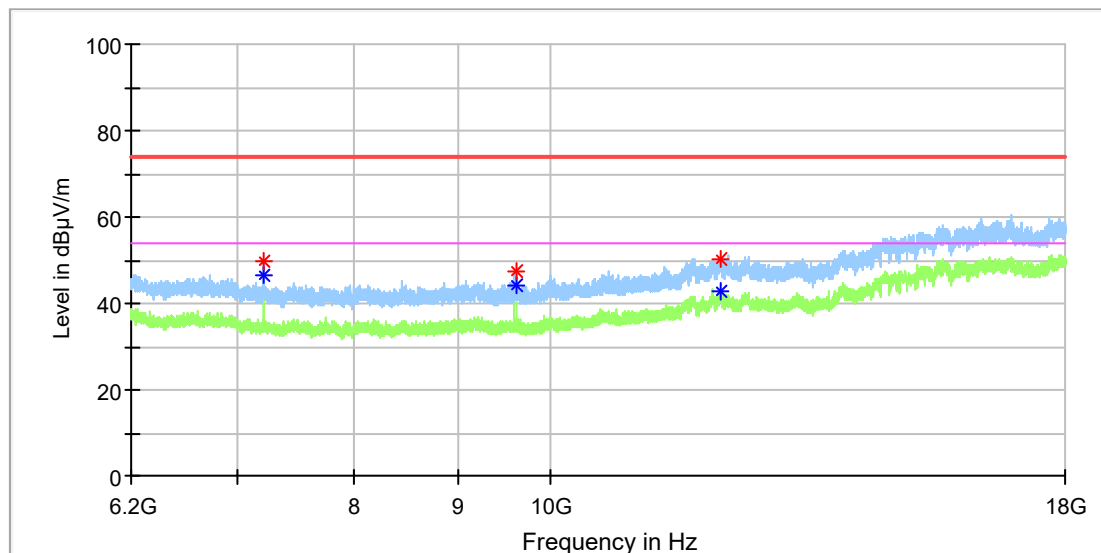
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.500000	---	50.48	54.00	3.52	150.0	V	260.0	13.3
4803.500000	65.80	---	74.00	8.20	150.0	V	260.0	13.3

Final Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

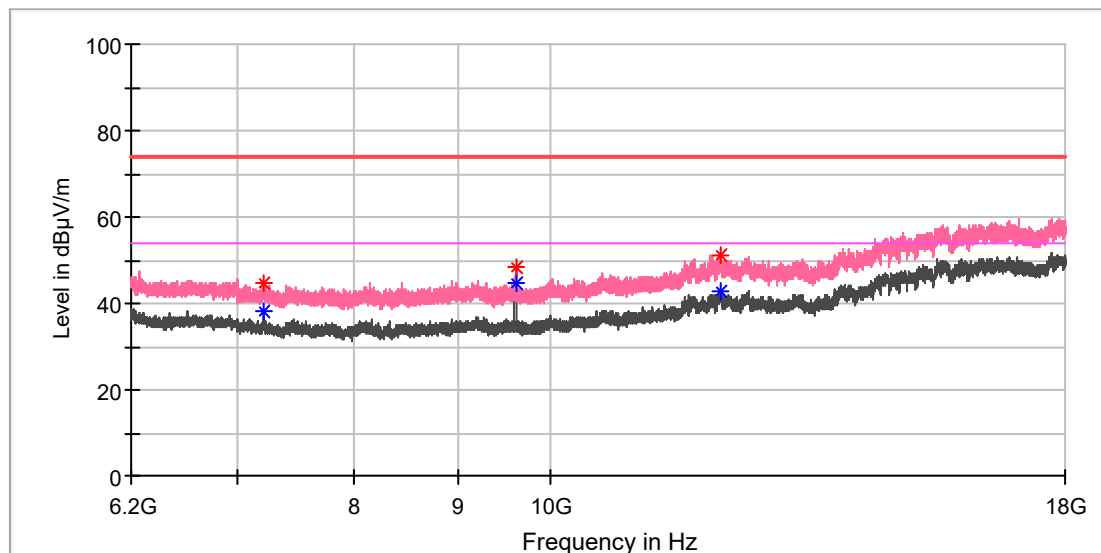
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	49.66	---	74.00	24.34	150.0	H	282.0	8.8
7205.950000	---	46.37	54.00	7.63	150.0	H	282.0	8.8
9607.741667	47.23	---	74.00	26.77	150.0	H	293.0	10.4
9608.233333	---	44.01	54.00	9.99	150.0	H	293.0	10.4
12137.366667	50.46	---	74.00	23.54	150.0	H	209.0	16.4
12145.725000	---	42.88	54.00	11.12	150.0	H	32.0	16.6

Final_Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	37.94	54.00	16.06	150.0	V	178.0	8.8
7205.950000	44.68	---	74.00	29.32	150.0	V	272.0	8.8
9607.741667	---	44.86	54.00	9.14	150.0	V	315.0	10.4
9608.233333	48.59	---	74.00	25.41	150.0	V	315.0	10.4
12147.200000	---	42.81	54.00	11.19	150.0	V	233.0	16.7
12151.625000	51.37	---	74.00	22.63	150.0	V	211.0	16.6

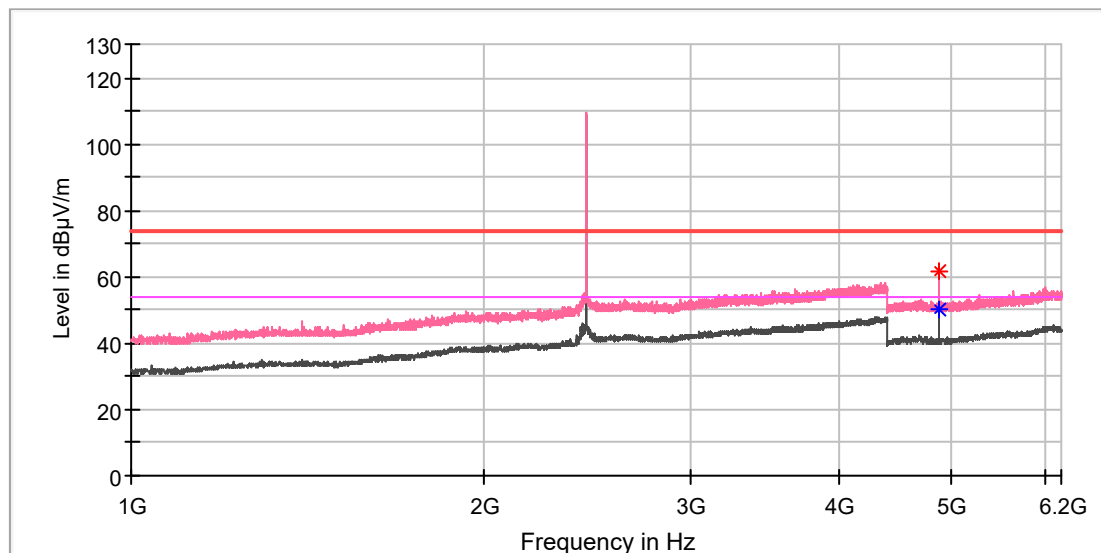
Final_Result

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

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

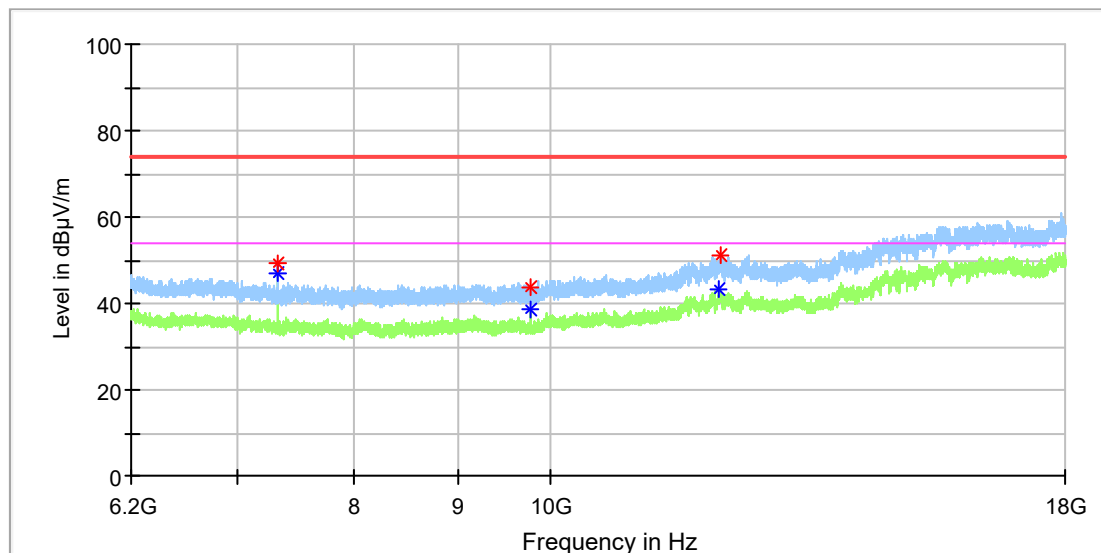
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.000000	---	49.94	54.00	4.06	150.0	V	266.0	13.3
4882.000000	61.75	---	74.00	12.25	150.0	V	266.0	13.3

Final Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

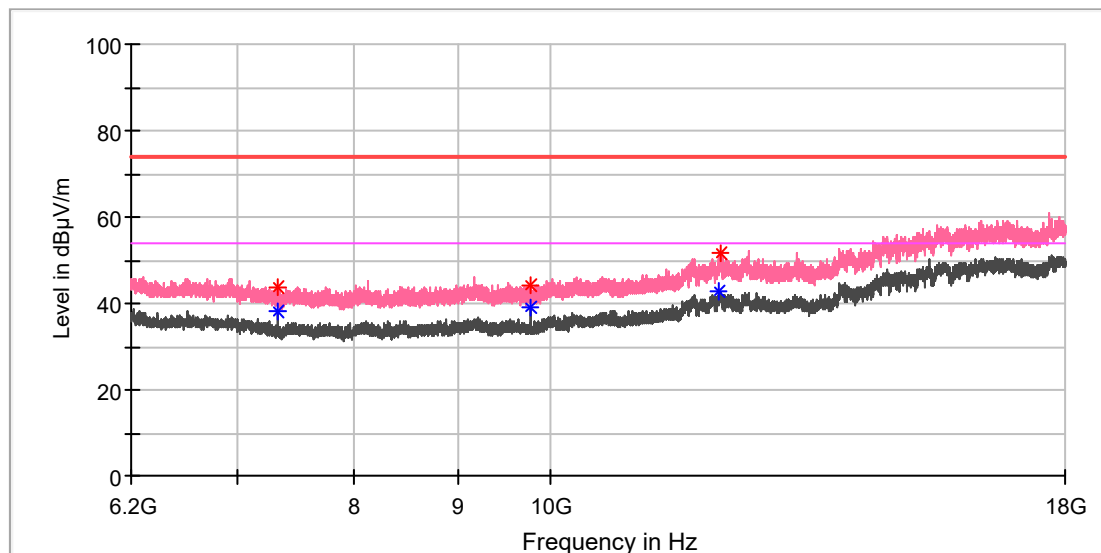
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	49.53	---	74.00	24.47	150.0	H	271.0	8.2
7322.966667	---	47.01	54.00	6.99	150.0	H	271.0	8.2
9763.600000	---	38.70	54.00	15.30	150.0	H	293.0	10.4
9764.091667	43.72	---	74.00	30.28	150.0	H	304.0	10.4
12127.533333	---	43.08	54.00	10.92	150.0	H	0.0	16.1
12150.641667	51.33	---	74.00	22.67	150.0	H	316.0	16.7

Final_Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

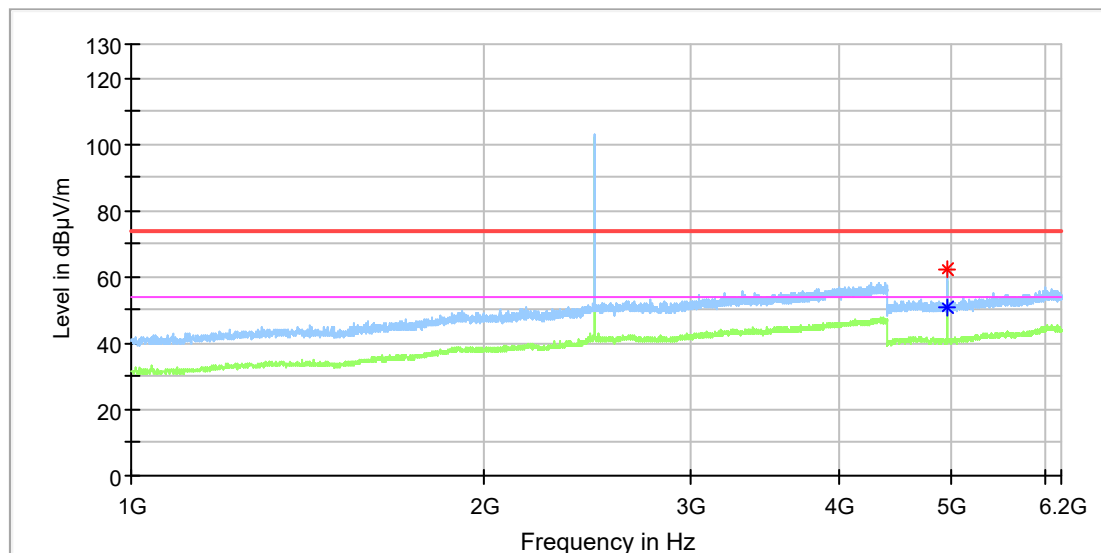
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	43.95	---	74.00	30.05	150.0	V	252.0	8.2
7322.966667	---	38.32	54.00	15.68	150.0	V	252.0	8.2
9763.600000	---	39.12	54.00	14.88	150.0	V	297.0	10.4
9764.091667	44.02	---	74.00	29.98	150.0	V	297.0	10.4
12130.483333	---	42.60	54.00	11.40	150.0	V	142.0	16.2
12144.250000	51.47	---	74.00	22.53	150.0	V	88.0	16.6

Final_Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_High channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

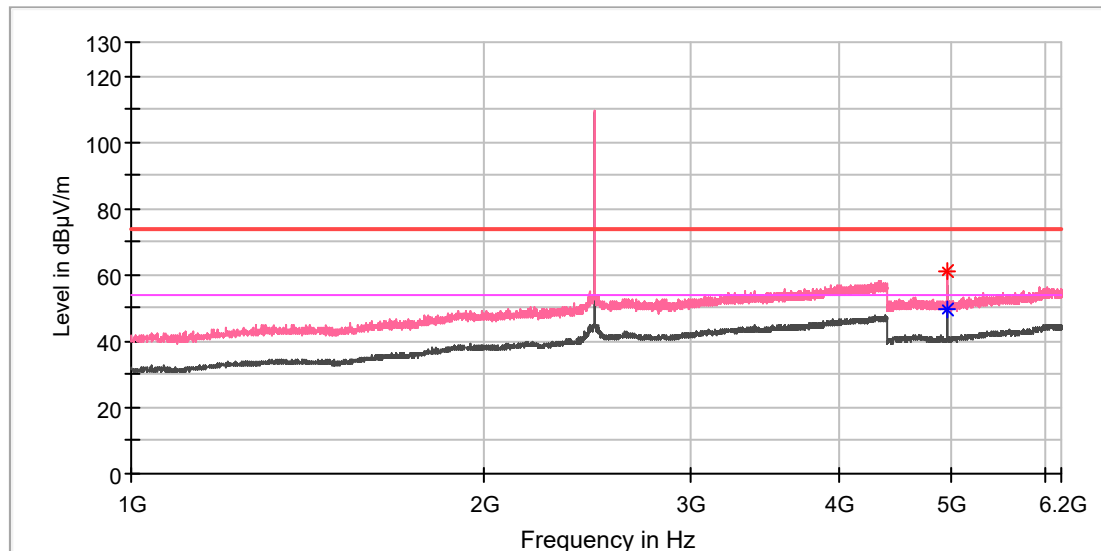
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	---	50.59	54.00	3.41	150.0	H	281.0	13.3
4960.000000	62.29	---	74.00	11.71	150.0	H	281.0	13.3

Final Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_High channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	---	49.67	54.00	4.33	150.0	V	271.0	13.3
4959.500000	61.03	---	74.00	12.97	150.0	V	264.0	13.3

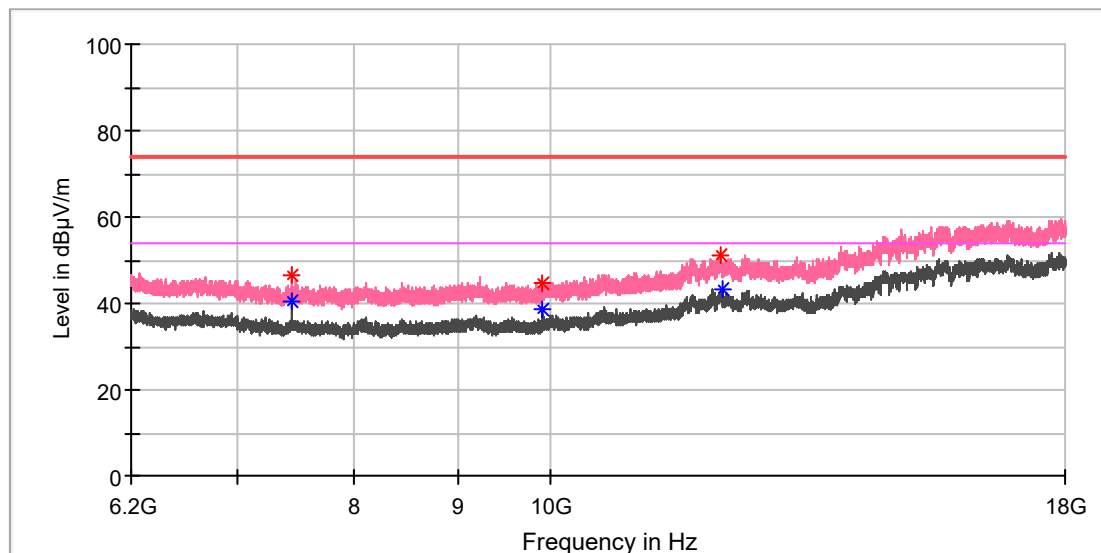
Final Result

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

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_High channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	46.43	---	74.00	27.57	150.0	V	258.0	8.4
7439.983333	---	40.41	54.00	13.59	150.0	V	258.0	8.4
9918.966667	44.80	---	74.00	29.20	150.0	V	318.0	10.8
9919.950000	---	38.79	54.00	15.21	150.0	V	318.0	10.8
12132.941667	51.34	---	74.00	22.66	150.0	V	0.0	16.3
12160.475000	---	43.37	54.00	10.63	150.0	V	225.0	16.2

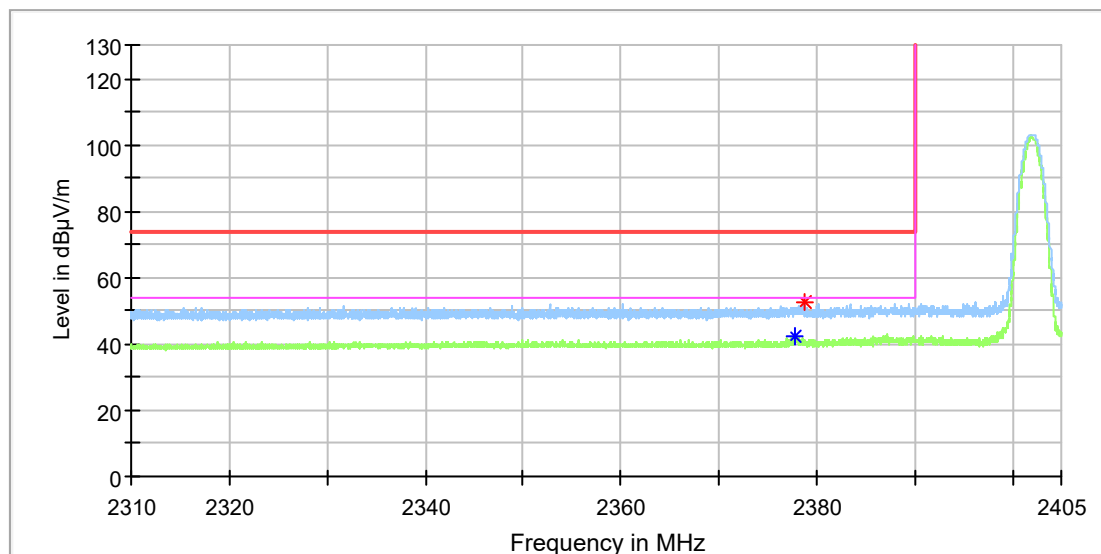
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (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:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

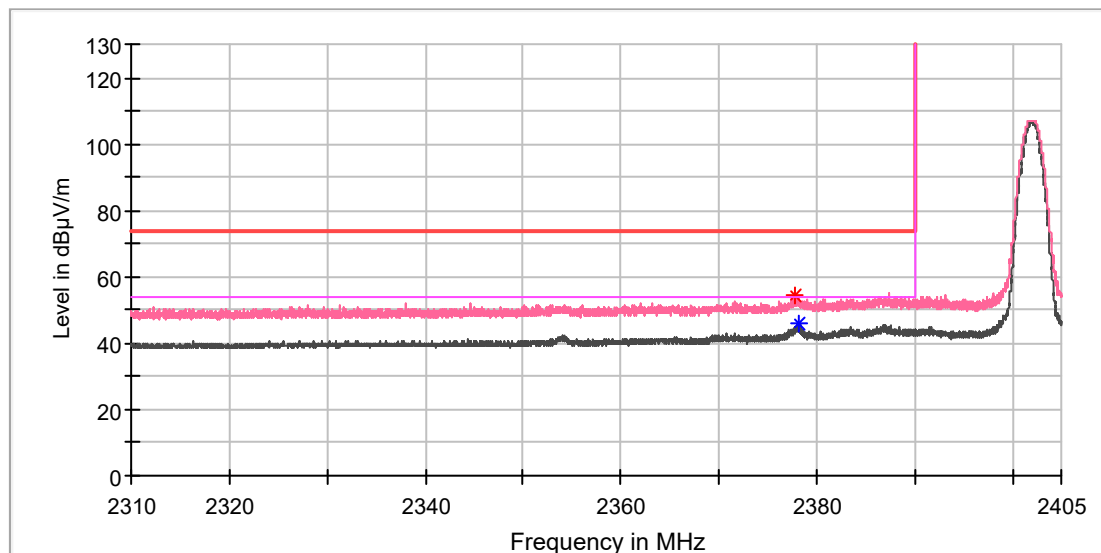
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.799265	---	42.50	54.00	11.50	150.0	H	104.0	8.5
2378.735294	52.44	---	74.00	21.56	150.0	H	111.0	8.5

Final_Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

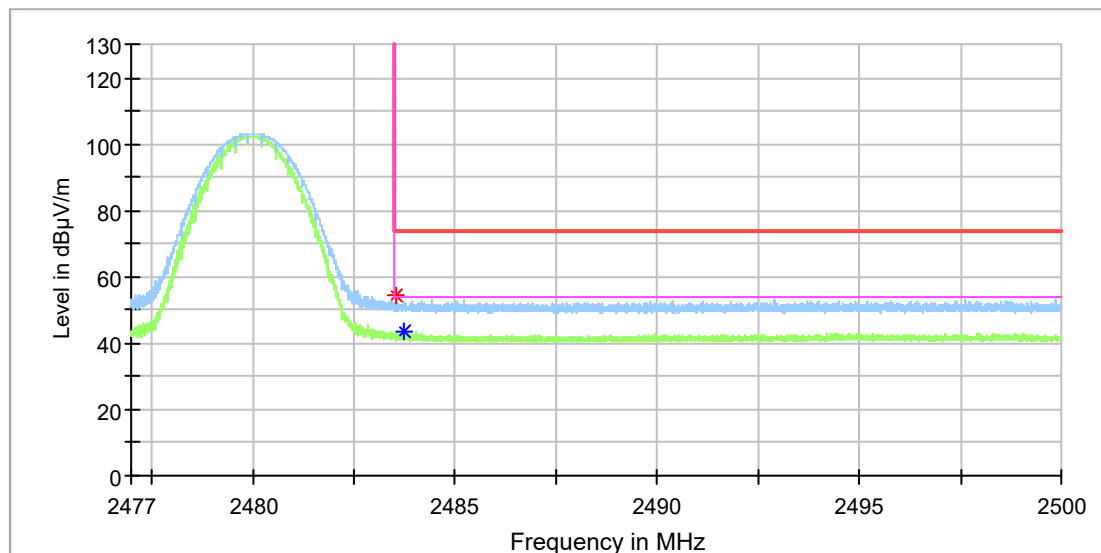
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.869118	54.19	---	74.00	19.81	150.0	V	87.0	8.5
2378.106618	---	45.96	54.00	8.04	150.0	V	87.0	8.5

Final Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_High channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

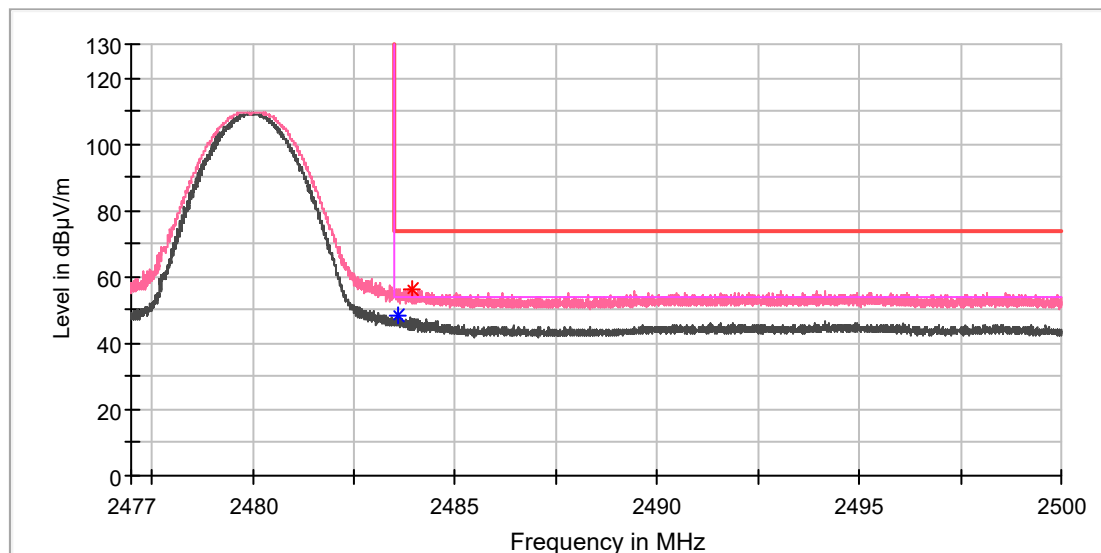
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.544853	54.64	---	74.00	19.36	150.0	H	101.0	9.0
2483.754559	---	43.61	54.00	10.39	150.0	H	101.0	9.0

Final Result

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

EUT Information

EUT Name:	2.1CH Soundbar with Wireless Subwoofer
Model:	HS2100S
Test Mode:	BR DH5_High channel
Order No/Sample No:	27219521/A004198499-003
Test Voltage:	120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.578677	---	48.10	54.00	5.90	150.0	V	101.0	9.0
2483.930441	56.44	---	74.00	17.56	150.0	V	86.0	9.0

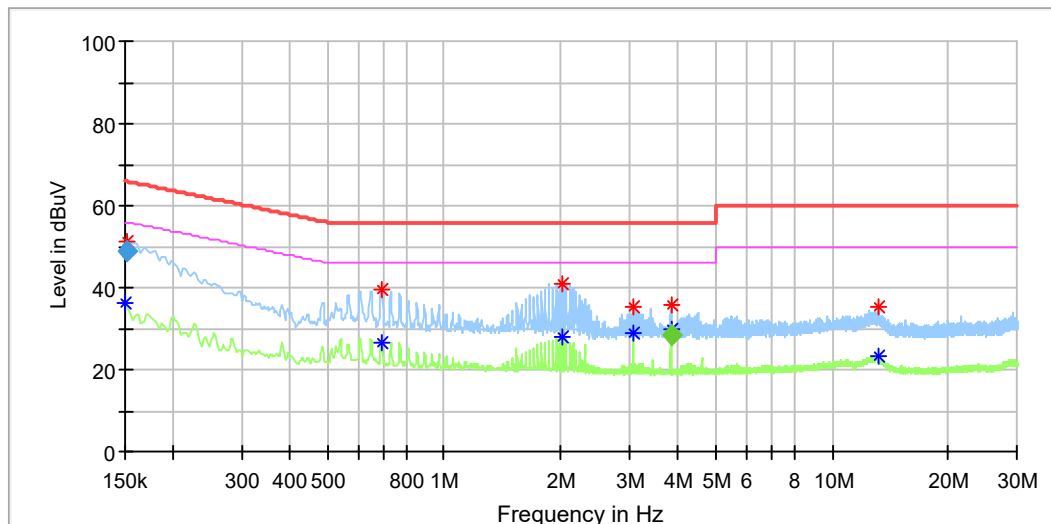
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (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: 2.1CH Soundbar with Wireless Subwoofer
Order Number: 27219521 P02275309
Model: HS2100S
Test Mode: BT Link Normal working (1kHz Signal Playing)
Test Voltage: AC 120V/ 60Hz
Test Standard: FCC Part 15
Test By:/Review By: Aric Wang / Charlie Zha
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: SR 3



Critical Freqs

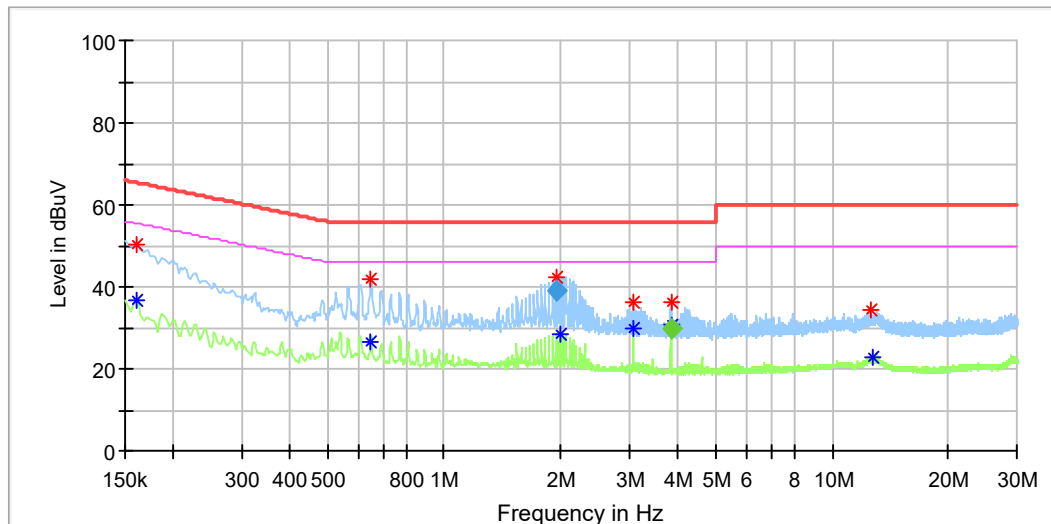
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150	---	36.4	56.00	19.62	L1	9.5
0.152	51.4	---	65.86	14.50	L1	9.5
0.687	---	26.5	46.00	19.49	L1	9.7
0.690	39.3	---	56.00	16.69	L1	9.7
2.026	40.8	---	56.00	15.17	L1	9.6
2.026	---	27.7	46.00	18.26	L1	9.6
3.070	---	28.8	46.00	17.25	L1	9.6
3.070	35.5	---	56.00	20.46	L1	9.6
3.839	35.9	---	56.00	20.06	L1	9.7
3.839	---	29.8	46.00	16.21	L1	9.7
13.142	35.6	---	60.00	24.44	L1	9.7
13.227	---	23.0	50.00	26.96	L1	9.6

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.152	49.0	---	65.86	16.85	1000.0	9.0	L1	9.5
3.839	---	28.6	46.00	17.41	1000.0	9.0	L1	9.7

EUT Information

EUT Name: 2.1CH Soundbar with Wireless Subwoofer
Order Number: 27219521 P02275309
Model: HS2100S
Test Mode: BT Link Normal working (1kHz Signal Playing)
Test Voltage: AC 120V/ 60Hz
Test Standard: FCC Part 15
Test By:/Review By: Aric Wang / Charlie Zha
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: SR 3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.160	50.2	---	65.47	15.26	N	9.8
0.160	---	36.9	55.47	18.52	N	9.8
0.645	---	26.4	46.00	19.56	N	9.9
0.648	41.7	---	56.00	14.25	N	9.9
1.946	42.3	---	56.00	13.67	N	10.0
1.986	---	28.3	46.00	17.67	N	10.0
3.070	---	29.7	46.00	16.34	N	9.8
3.070	36.1	---	56.00	19.88	N	9.8
3.839	---	30.7	46.00	15.34	N	9.7
3.839	36.5	---	56.00	19.53	N	9.7
12.632	34.2	---	60.00	25.76	N	9.6
12.692	---	22.9	50.00	27.13	N	9.6

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.946	38.9	---	56.00	17.09	1000.0	9.0	N	10.0
3.839	---	29.5	46.00	16.45	1000.0	9.0	N	9.7