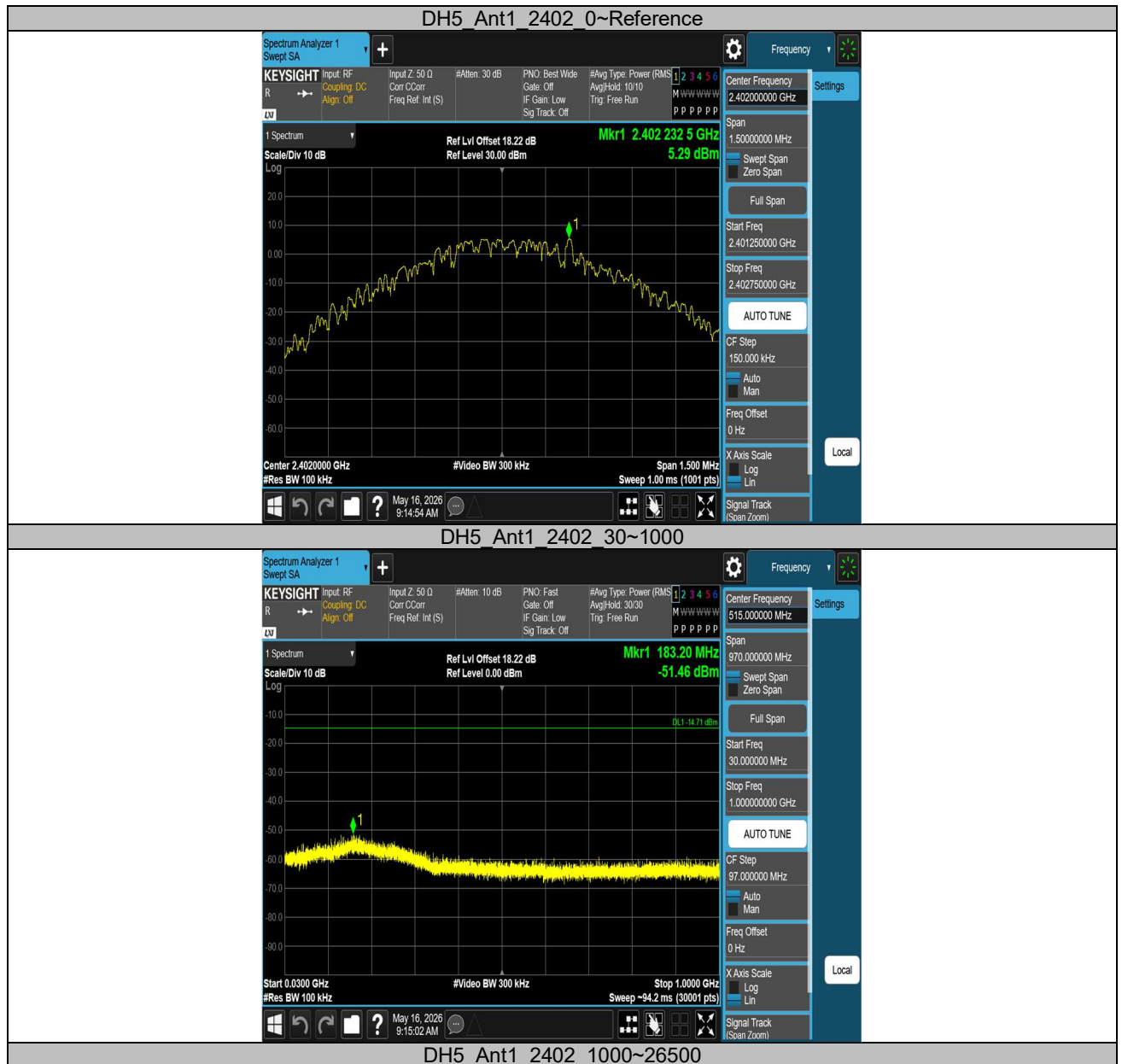


Appendix A.7: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.29	5.29	---	PASS
			30~1000	5.29	-51.46	≤-14.71	PASS
			1000~26500	5.29	-53.3	≤-14.71	PASS
		2441	Reference	4.42	4.42	---	PASS
			30~1000	4.42	-51.44	≤-15.58	PASS
			1000~26500	4.42	-53.08	≤-15.58	PASS
		2480	Reference	4.22	4.22	---	PASS
			30~1000	4.22	-51.81	≤-15.78	PASS
			1000~26500	4.22	-53.76	≤-15.78	PASS
3DH5	Ant1	2402	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-51.59	≤-23.35	PASS
			1000~26500	-3.35	-53.99	≤-23.35	PASS
		2441	Reference	-3.50	-3.50	---	PASS
			30~1000	-3.50	-51.27	≤-23.5	PASS
			1000~26500	-3.50	-53.74	≤-23.5	PASS
		2480	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-50.95	≤-19.58	PASS
			1000~26500	0.42	-53.55	≤-19.58	PASS

Test Graphs

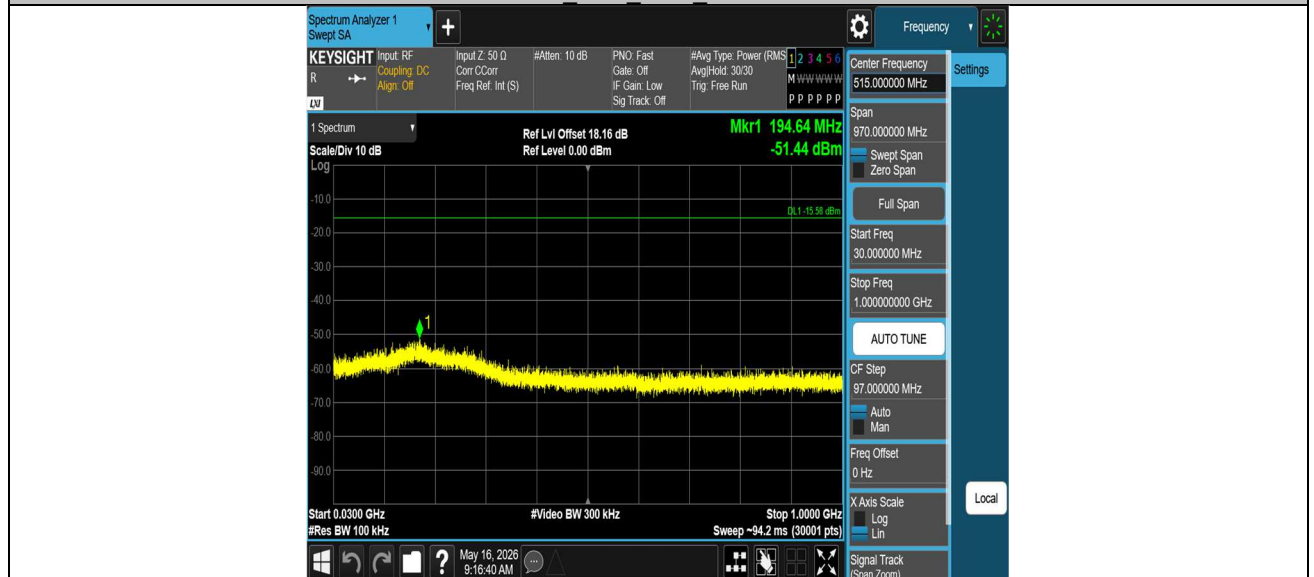




DH5_Ant1_2441_0~Reference



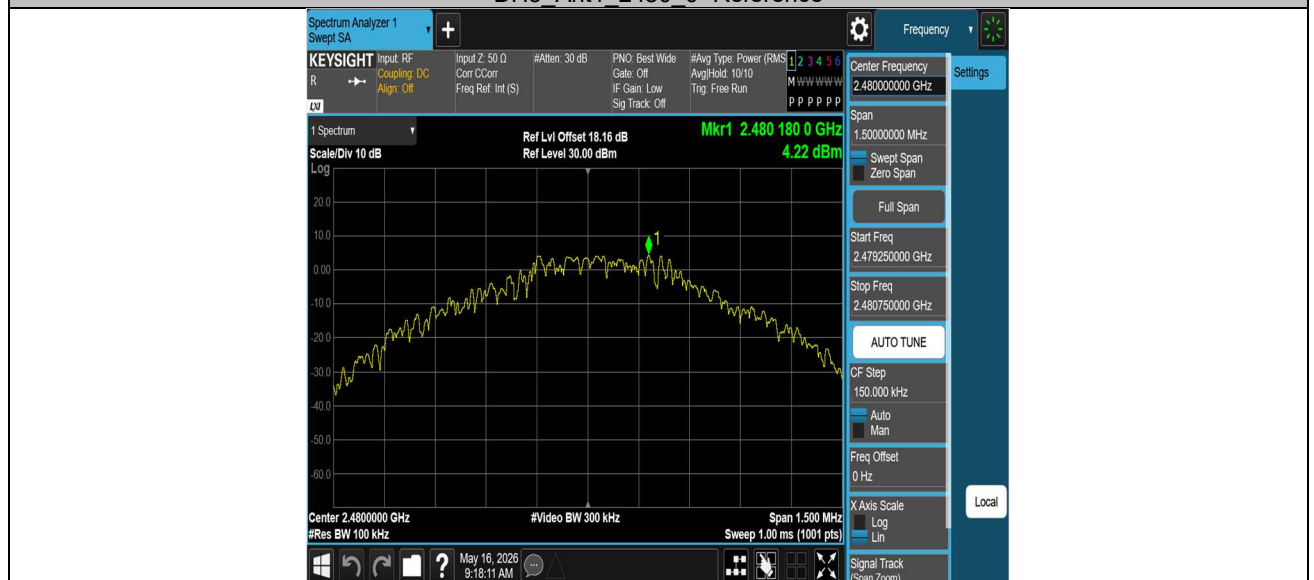
DH5_Ant1_2441_30~1000



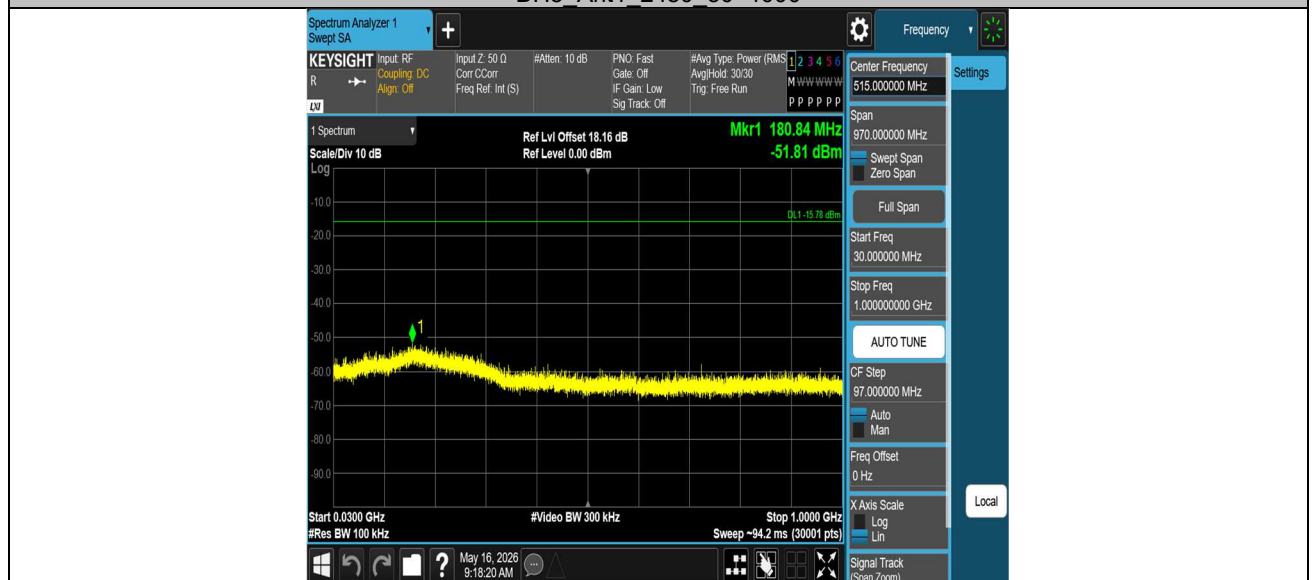
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



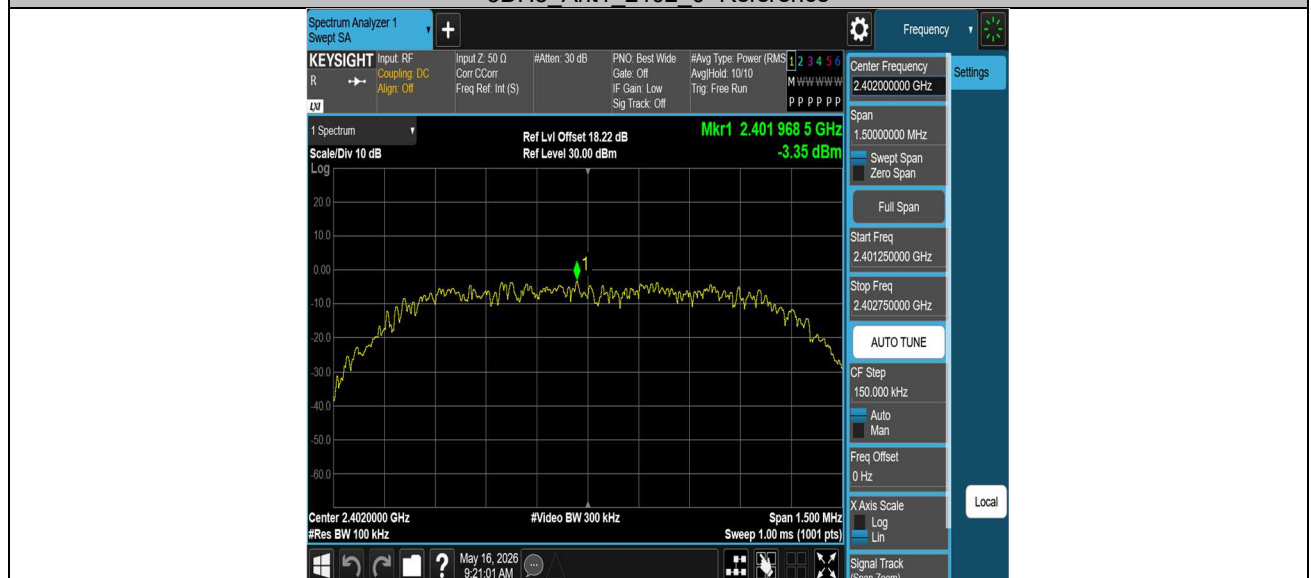
DH5_Ant1_2480_30~1000



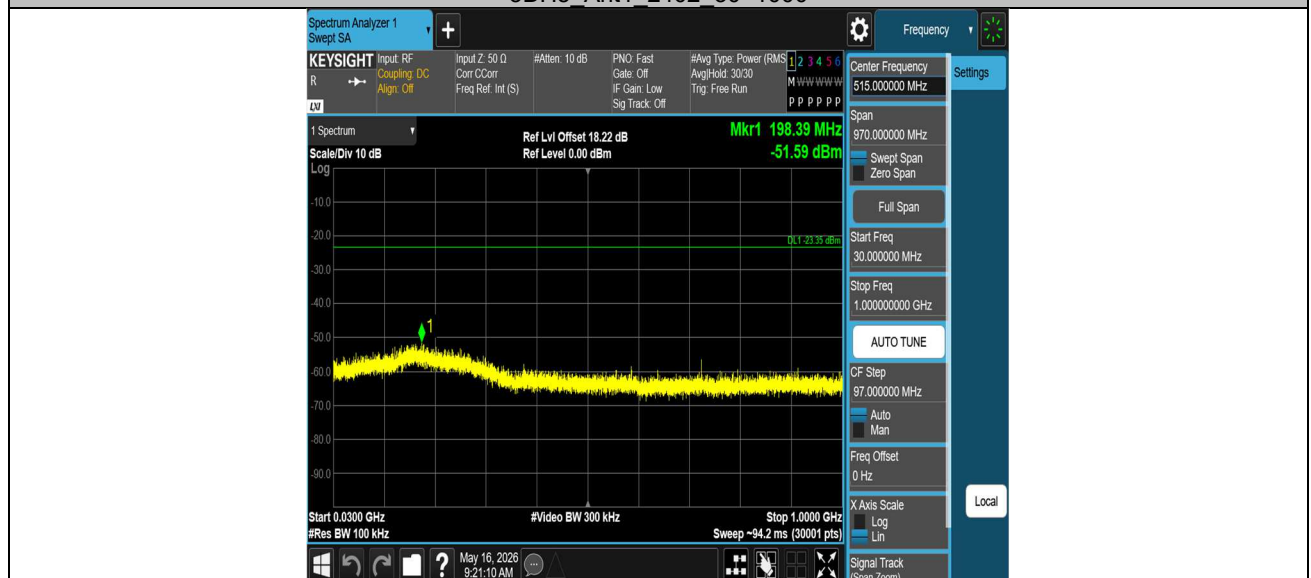
DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



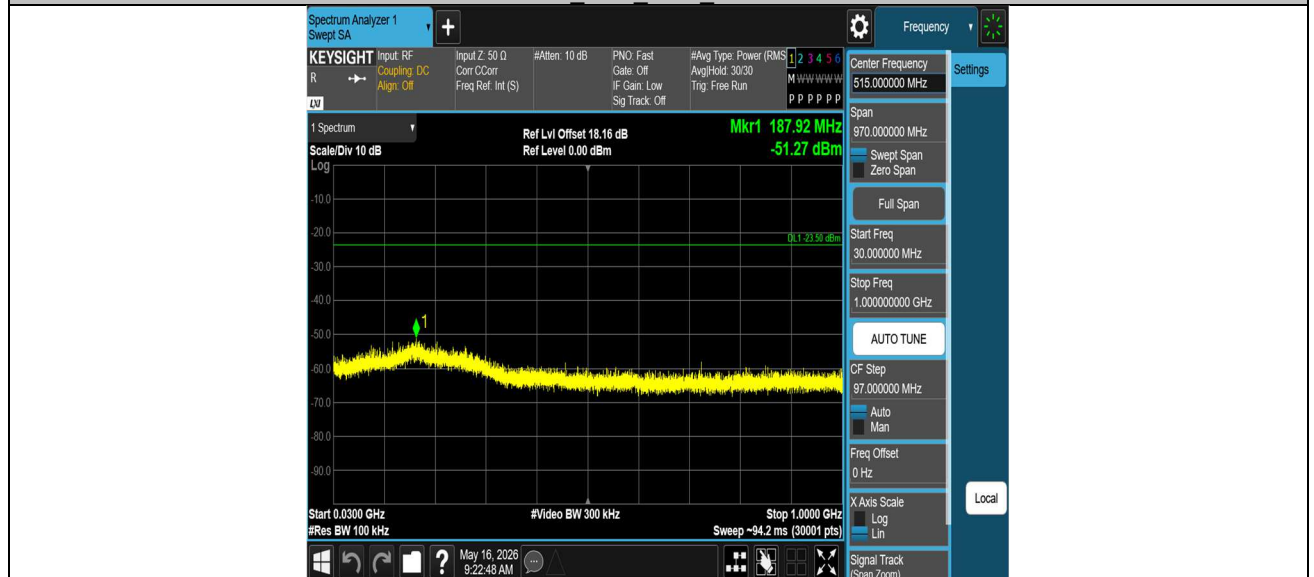
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



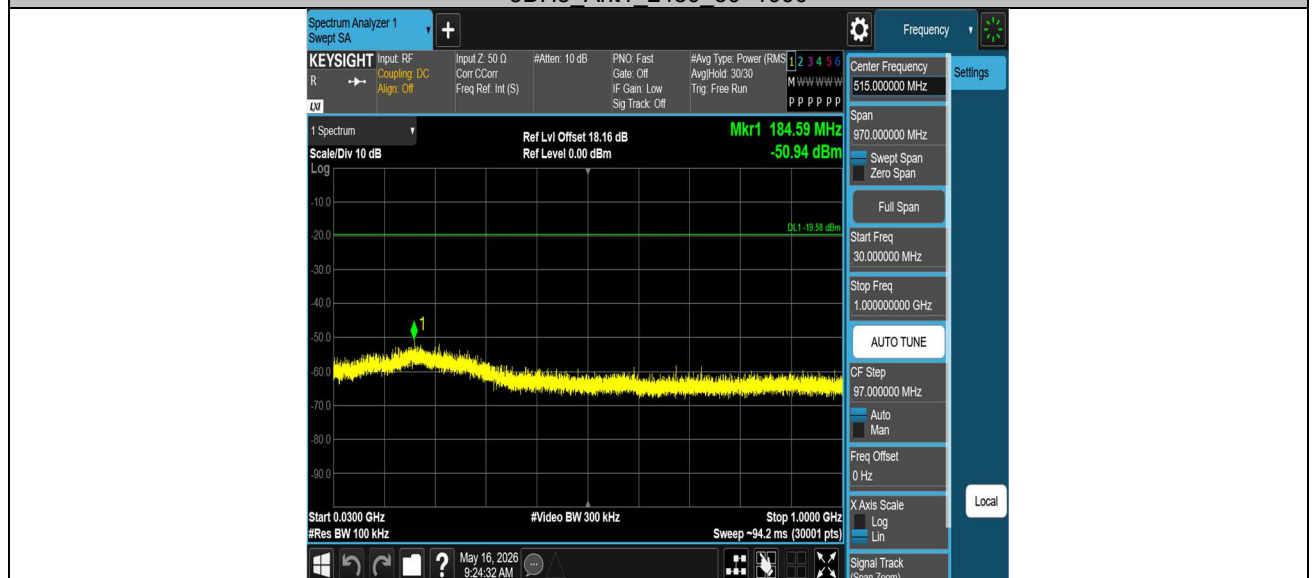
3DH5_Ant1_2441_1000~26500



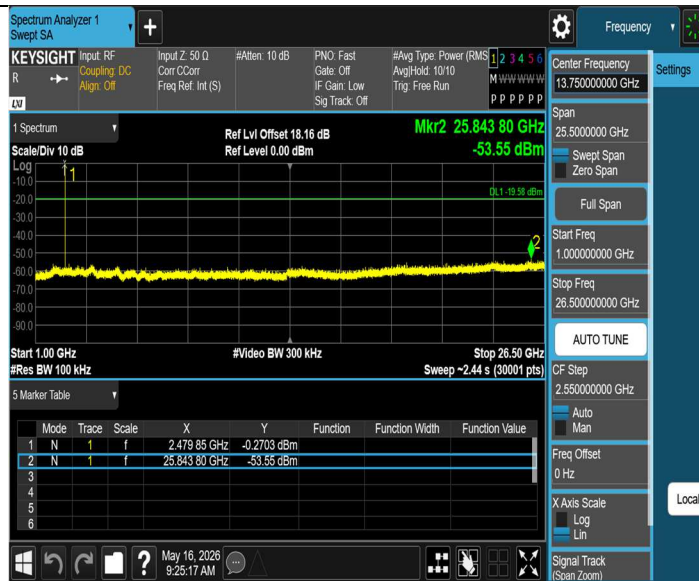
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix A.8: Test Results of Radiated Spurious Emissions

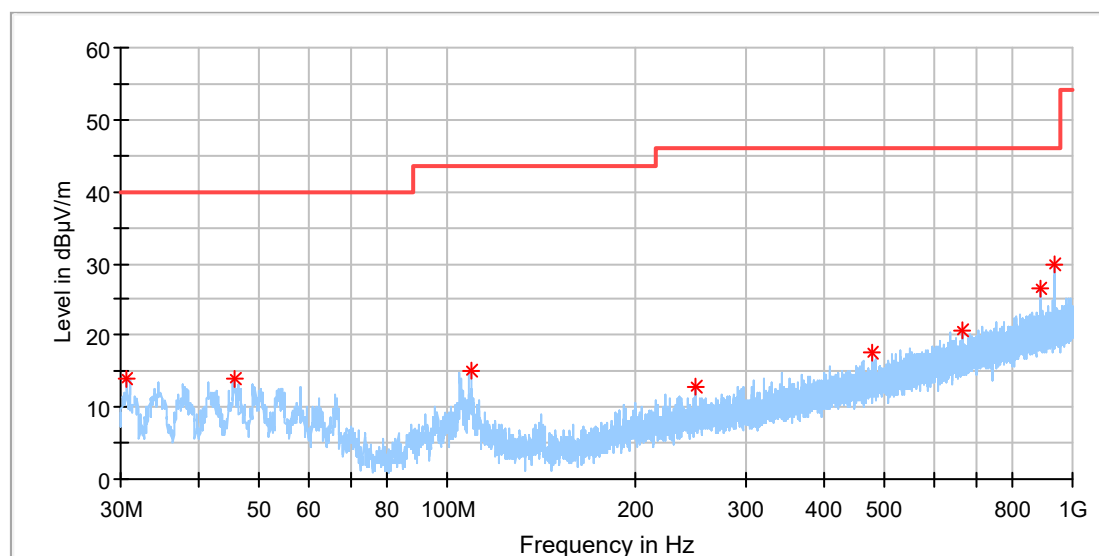
Note:

- 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:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

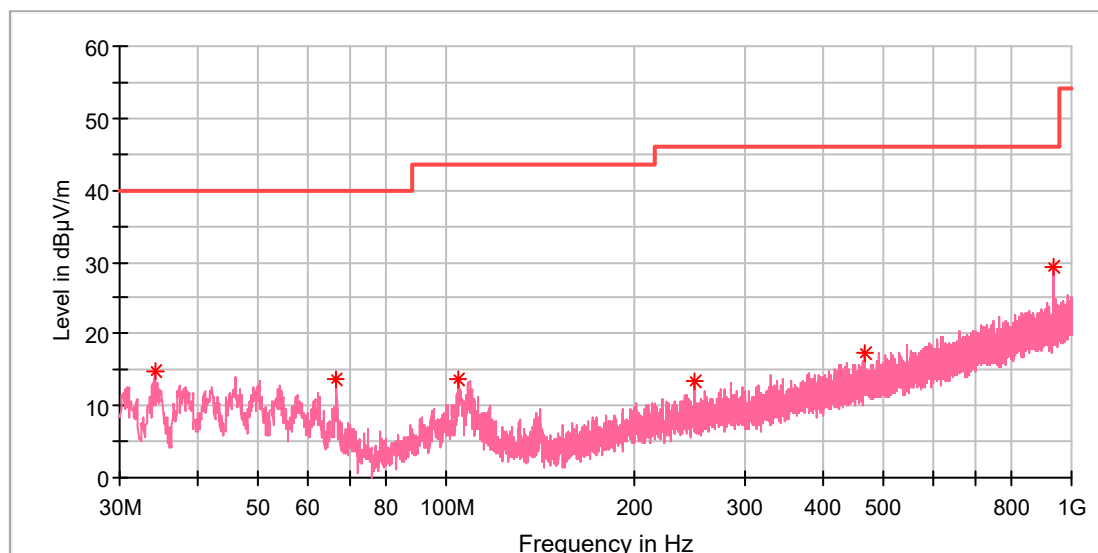
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.754444	13.98	40.00	26.02	100.0	H	135.0	-22.9
45.735556	13.99	40.00	26.01	100.0	H	0.0	-18.8
108.839444	15.09	43.50	28.41	100.0	H	349.0	-19.1
250.028333	12.98	46.00	33.02	100.0	H	319.0	-17.4
478.625000	17.45	46.00	28.55	100.0	H	103.0	-12.2
666.050556	20.78	46.00	25.22	100.0	H	248.0	-8.6
890.982778	26.48	46.00	19.52	100.0	H	192.0	-4.9
938.405000	29.91	46.00	16.09	100.0	H	349.0	-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:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
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)
34.149444	14.80	40.00	25.20	100.0	V	88.0	-22.3
66.752222	13.70	40.00	26.30	100.0	V	220.0	-20.8
104.636111	13.54	43.50	29.96	100.0	V	139.0	-18.9
250.028333	13.42	46.00	32.58	100.0	V	358.0	-17.4
467.146667	17.19	46.00	28.81	100.0	V	6.0	-12.4
936.950000	29.39	46.00	16.61	100.0	V	258.0	-4.4

Final_Result

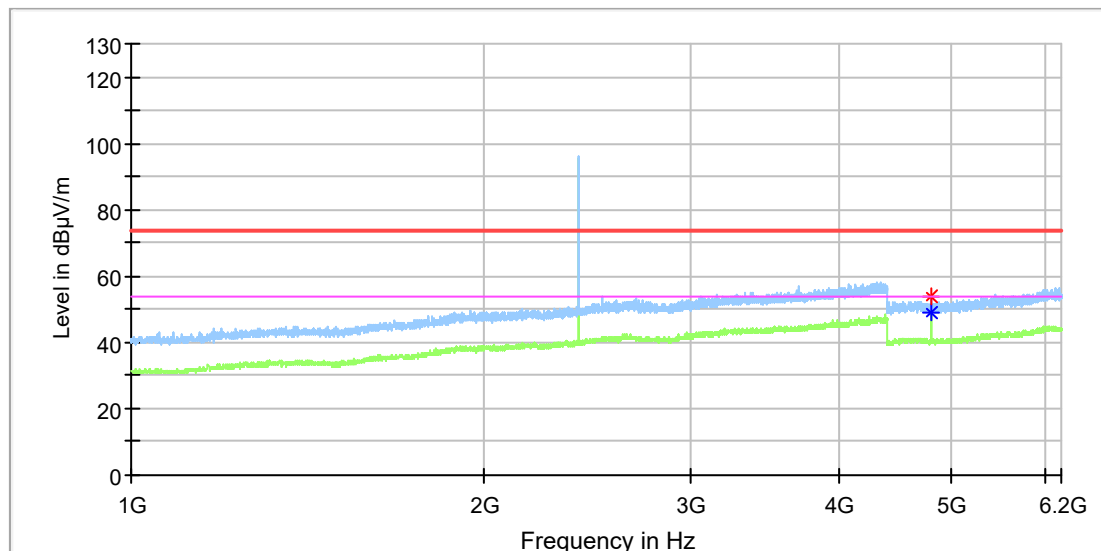
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

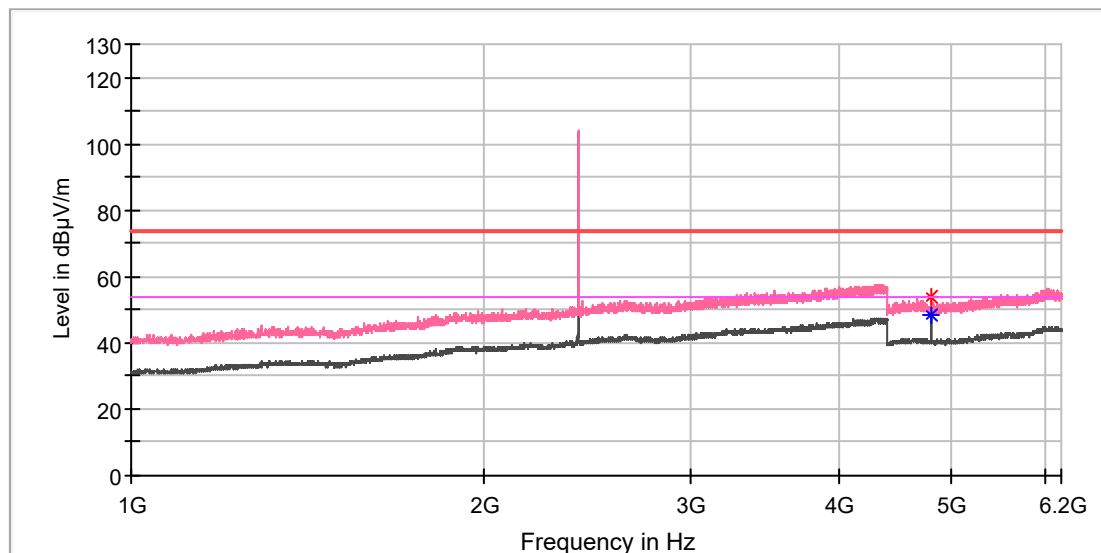
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	48.89	54.00	5.11	150.0	H	112.0	13.3
4804.500000	54.00	---	74.00	20.00	150.0	H	124.0	13.3

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:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

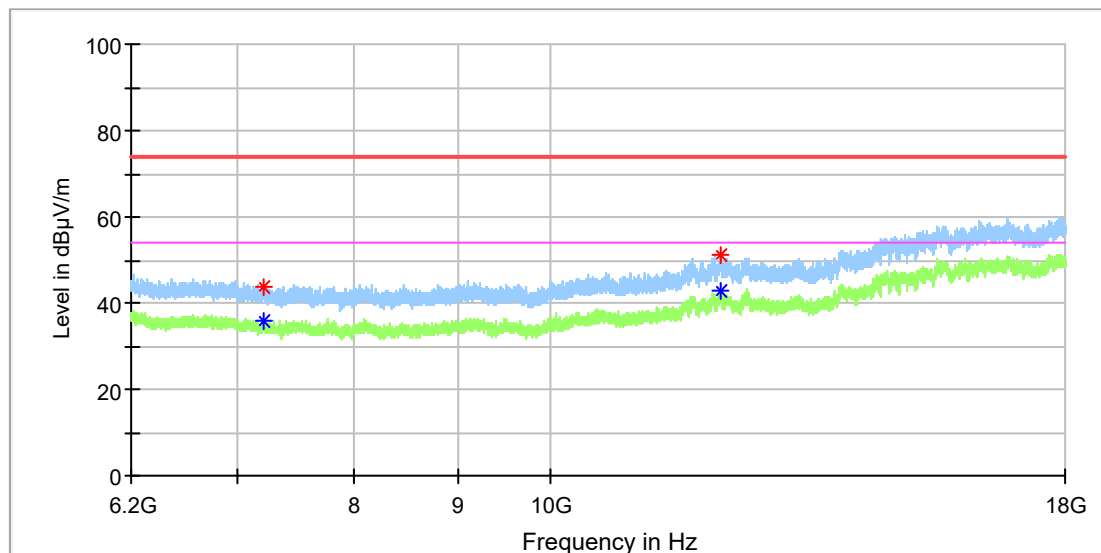
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	54.10	---	74.00	19.90	150.0	V	245.0	13.3
4804.000000	---	48.50	54.00	5.50	150.0	V	232.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

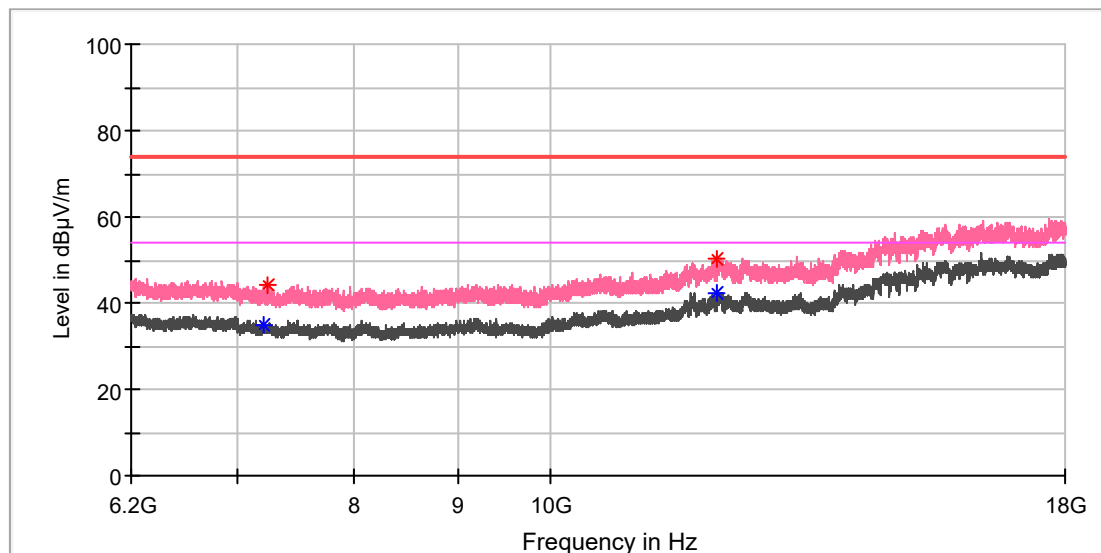
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7213.325000	---	35.62	54.00	18.38	150.0	H	306.0	8.7
7217.750000	43.83	---	74.00	30.17	150.0	H	95.0	8.7
12135.400000	51.19	---	74.00	22.81	150.0	H	30.0	16.3
12148.183333	---	42.96	54.00	11.04	150.0	H	150.0	16.7

Final Result

[illegible]

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

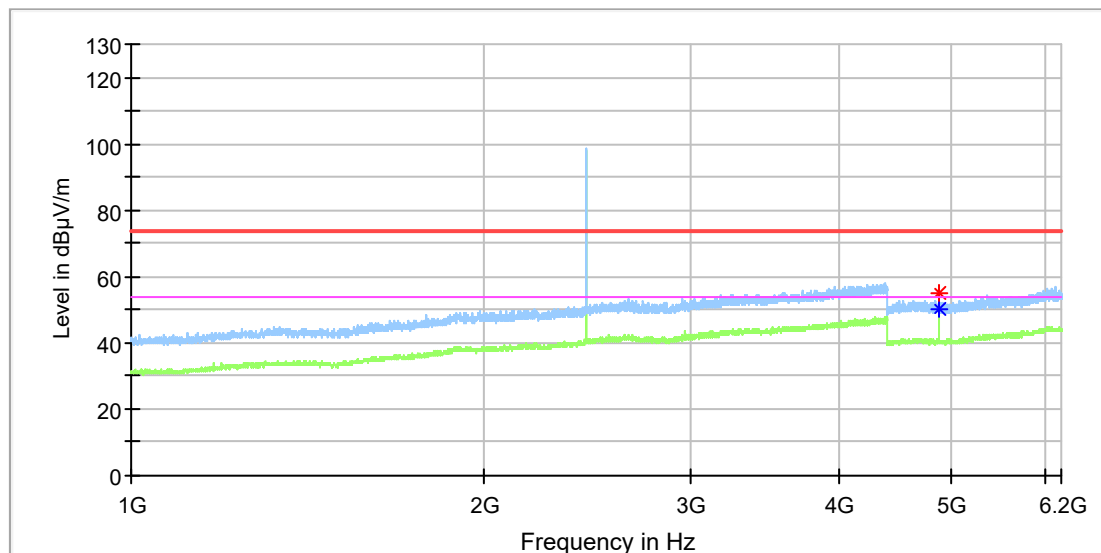
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7211.850000	---	35.04	54.00	18.96	150.0	V	137.0	8.7
7242.825000	44.20	---	74.00	29.80	150.0	V	0.0	8.6
12096.558333	50.36	---	74.00	23.64	150.0	V	44.0	15.3
12099.016667	---	42.35	54.00	11.65	150.0	V	235.0	15.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

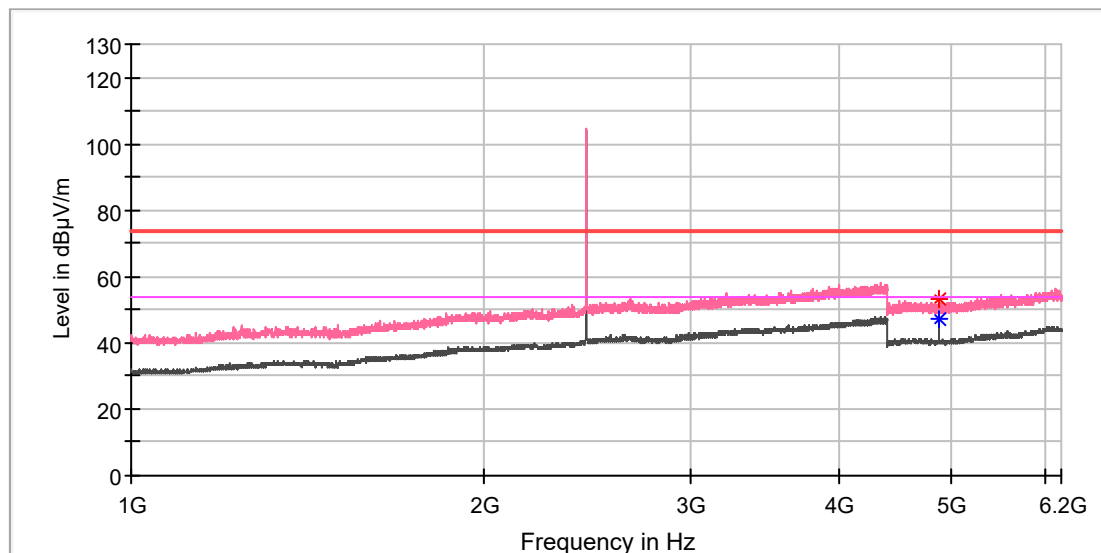
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	55.29	---	74.00	18.71	150.0	H	109.0	13.3
4882.000000	---	50.10	54.00	3.90	150.0	H	103.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

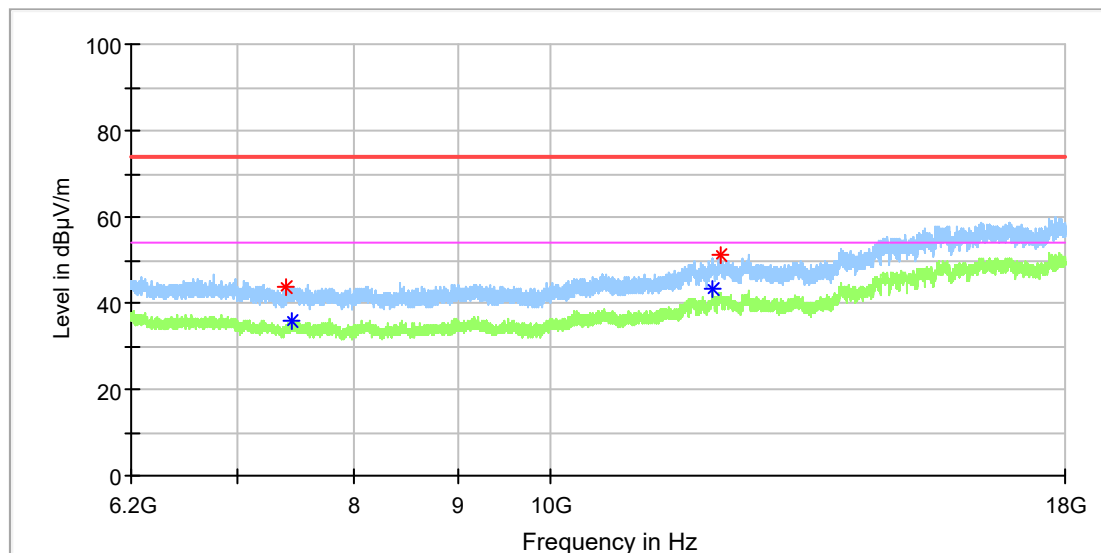
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	47.24	54.00	6.76	150.0	V	330.0	13.3
4882.500000	53.49	---	74.00	20.51	150.0	V	234.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

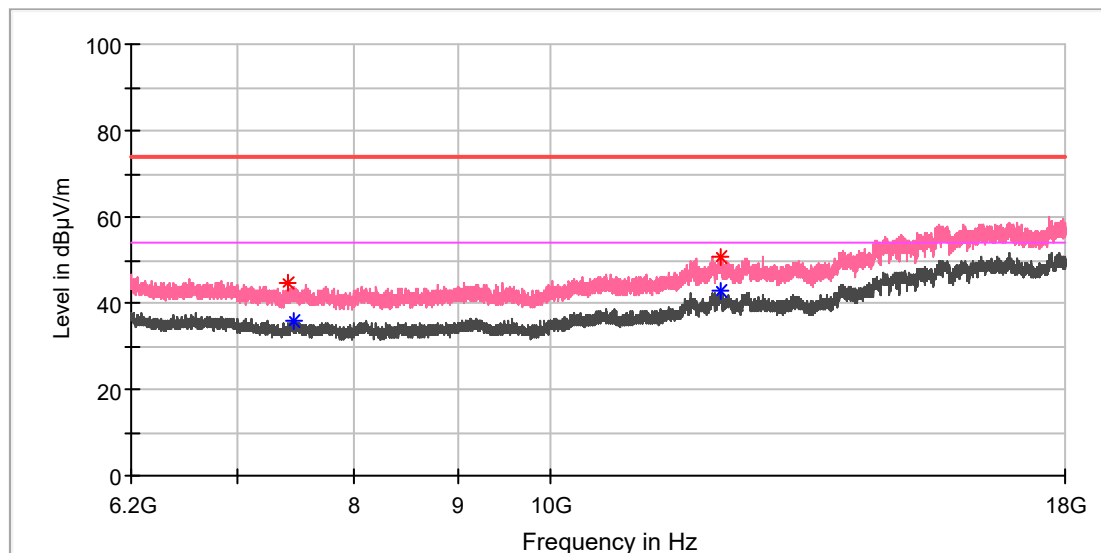
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7386.883333	43.92	---	74.00	30.08	150.0	H	295.0	8.2
7450.308333	---	35.79	54.00	18.21	150.0	H	317.0	8.5
12040.016667	---	43.28	54.00	10.72	150.0	H	240.0	16.2
12141.300000	51.11	---	74.00	22.89	150.0	H	251.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

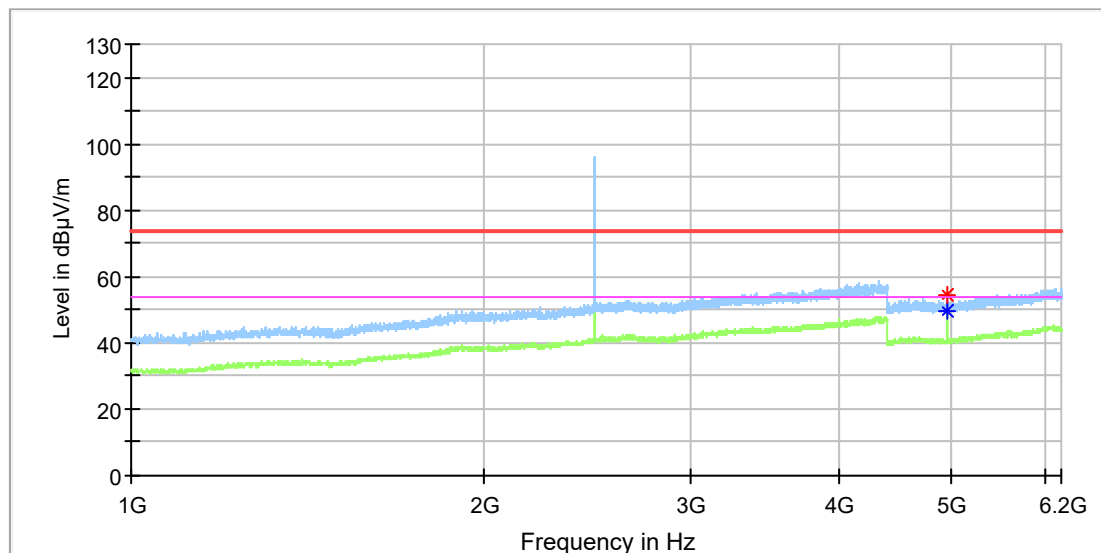
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7411.466667	44.47	---	74.00	29.53	150.0	V	327.0	8.3
7456.208333	---	35.79	54.00	18.21	150.0	V	95.0	8.5
12151.133333	---	42.86	54.00	11.14	150.0	V	0.0	16.7
12154.083333	50.69	---	74.00	23.31	150.0	V	187.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_High channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

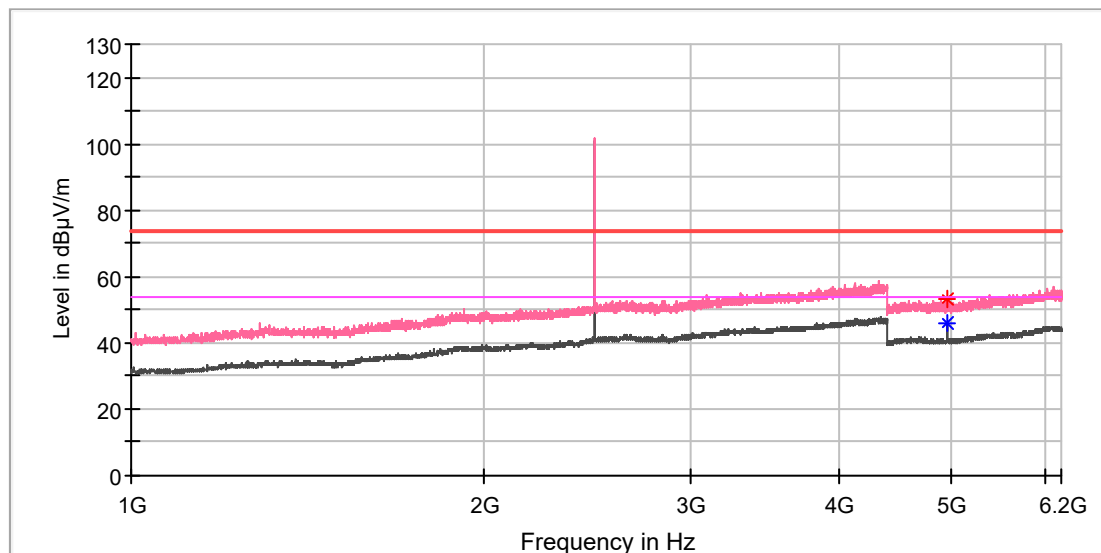
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	54.38	---	74.00	19.62	150.0	H	117.0	13.3
4960.000000	---	49.53	54.00	4.47	150.0	H	110.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_High channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

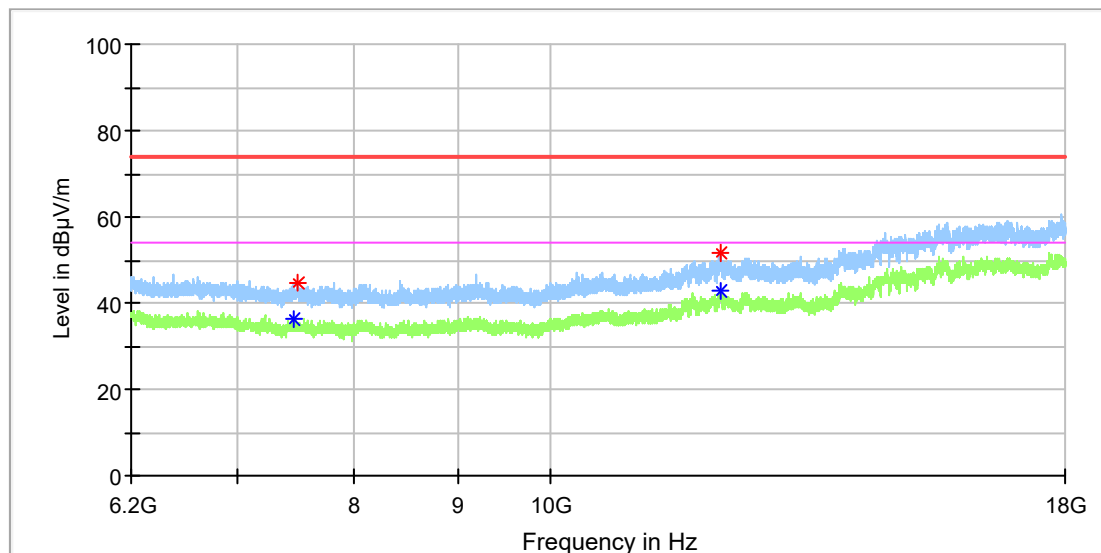
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	52.93	---	74.00	21.07	150.0	V	102.0	13.3
4960.000000	---	46.00	54.00	8.00	150.0	V	102.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	118.0	0.0	100.0	0	0	0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_High channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

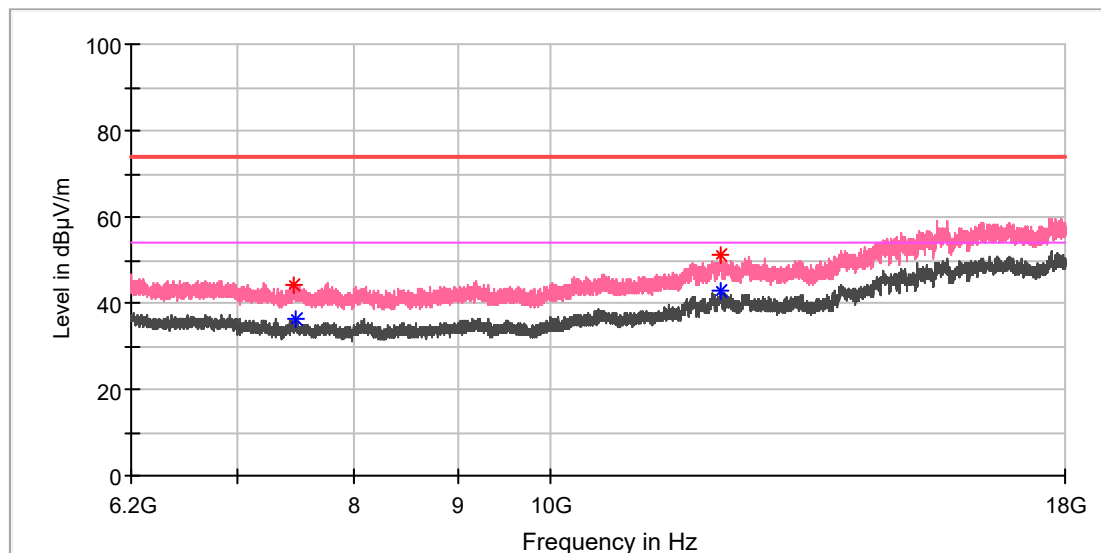
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7464.566667	---	36.10	54.00	17.90	150.0	H	0.0	8.6
7496.525000	44.49	---	74.00	29.51	150.0	H	153.0	8.7
12132.450000	51.49	---	74.00	22.51	150.0	H	341.0	16.3
12152.608333	---	42.68	54.00	11.32	150.0	H	359.0	16.6

Final Result

[illegible]

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_High channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
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)
7453.750000	44.02	---	74.00	29.98	150.0	V	224.0	8.5
7478.333333	---	36.44	54.00	17.56	150.0	V	54.0	8.7
12147.691667	51.18	---	74.00	22.82	150.0	V	175.0	16.7
12151.625000	---	42.76	54.00	11.24	150.0	V	0.0	16.6

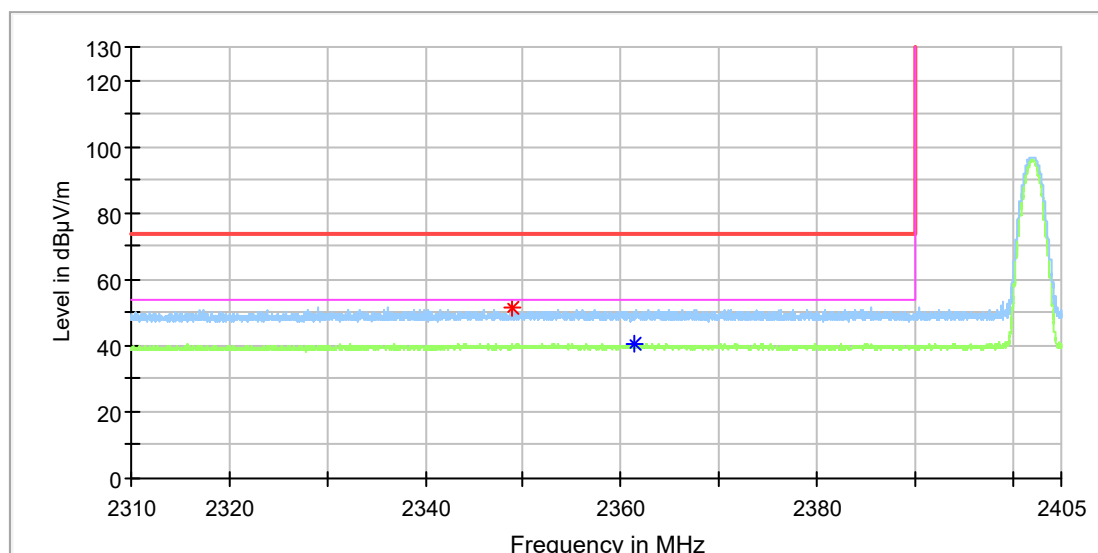
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

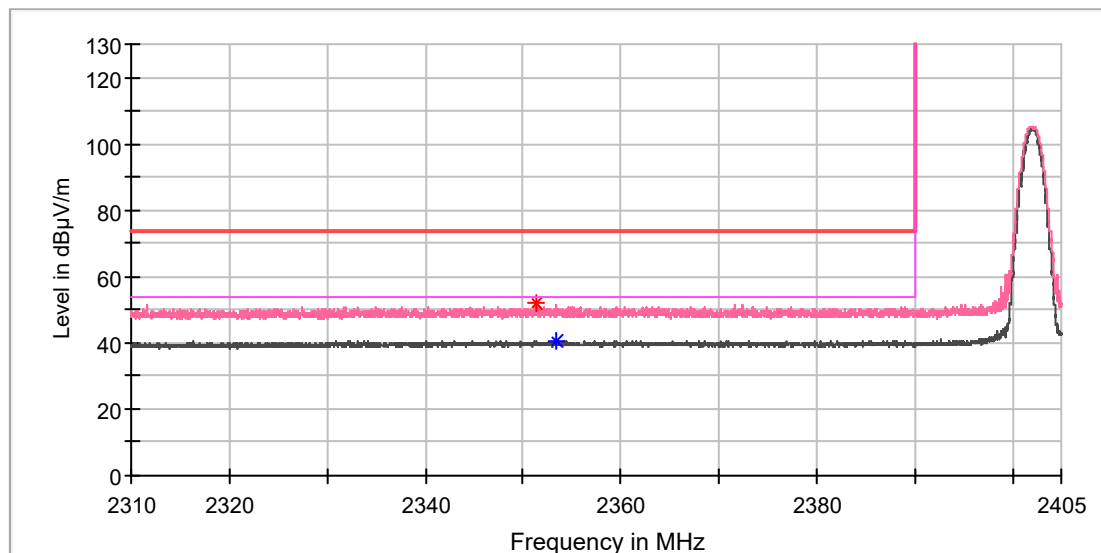
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2348.854118	51.32	---	74.00	22.68	150.0	H	175.0	8.5
2361.334706	---	40.71	54.00	13.29	150.0	H	196.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_Low channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

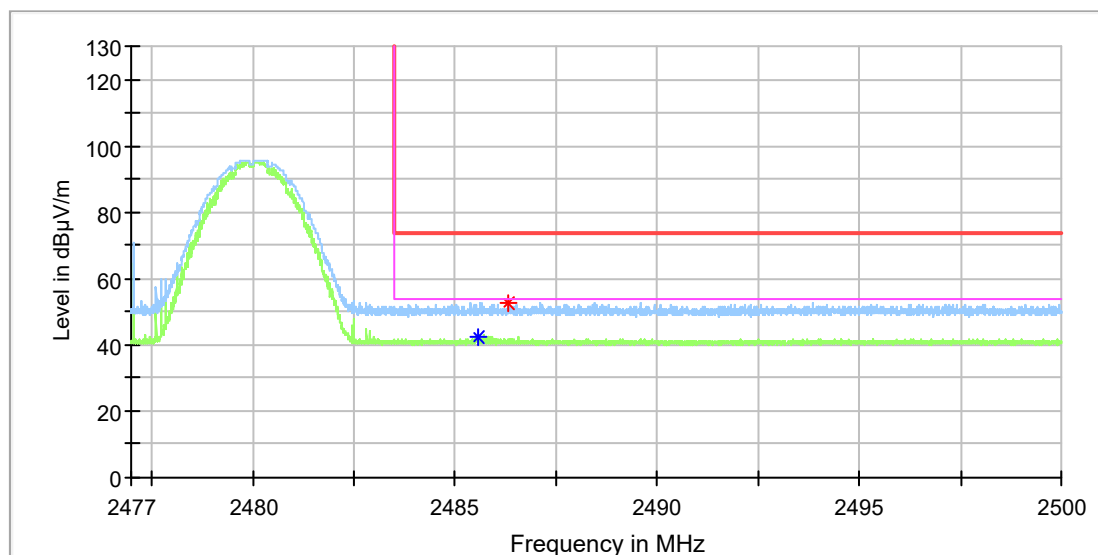
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.289706	51.87	---	74.00	22.13	150.0	V	301.0	8.5
2353.350588	---	40.64	54.00	13.36	150.0	V	25.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.75	122.0	118.0	120.0	2.0	30.0	V	0.0	0.0

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_High channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

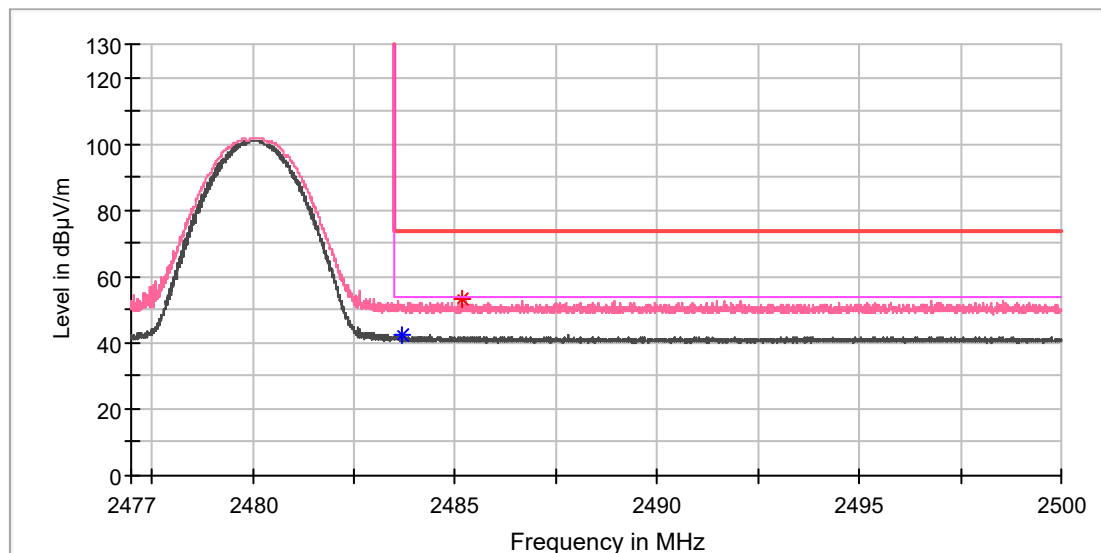
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.566177	---	42.52	54.00	11.48	150.0	H	97.0	9.0
2486.323530	52.79	---	74.00	21.21	150.0	H	267.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name:	Bluetooth Headset (Anker soundcore Q31i)
Model:	D1404
Test Mode:	BR DH5_High channel
Order No/Sample No:	27229511/A004256954-003
Test Voltage:	DC 3.7V
Remark:	Temp 23 Humi:54%
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)
2483.713235	---	42.29	54.00	11.71	150.0	V	277.0	9.0
2485.154412	52.95	---	74.00	21.05	150.0	V	234.0	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)
93.75	122.0	122.0	122.0	0.0	100.0	0	0	0