

Appendix B: Test Results of Bluetooth Low Energy

APPENDIX B: TEST RESULTS OF BLUETOOTH LOW ENERGY	1
APPENDIX B.1: TEST RESULTS OF 6dB BANDWIDTH.....	2
Test Result.....	2
Test Graphs.....	3
APPENDIX B.2: TEST RESULTS OF 99% BANDWIDTH.....	5
Test Result.....	5
Test Graphs.....	6
APPENDIX B.3: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	8
Test Result.....	8
Test Graphs.....	9
APPENDIX B.4: TEST RESULTS OF BAND EDGE MEASUREMENTS.....	11
Test Result.....	11
Test Graphs.....	12
APPENDIX B.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSION.....	14
Test Result.....	14
Test Graphs.....	15
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	21
30 MHz - 1GHz	21
1GHz - 18GHz.....	23
APPENDIX B.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	35

Appendix B.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.640	2402.328	0.5	PASS
		2440	0.700	2439.636	2440.336	0.5	PASS
		2480	0.680	2479.652	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.244	2401.336	2402.580	0.5	PASS
		2440	1.208	2439.348	2440.556	0.5	PASS
		2480	1.208	2479.344	2480.552	0.5	PASS

Test Graphs



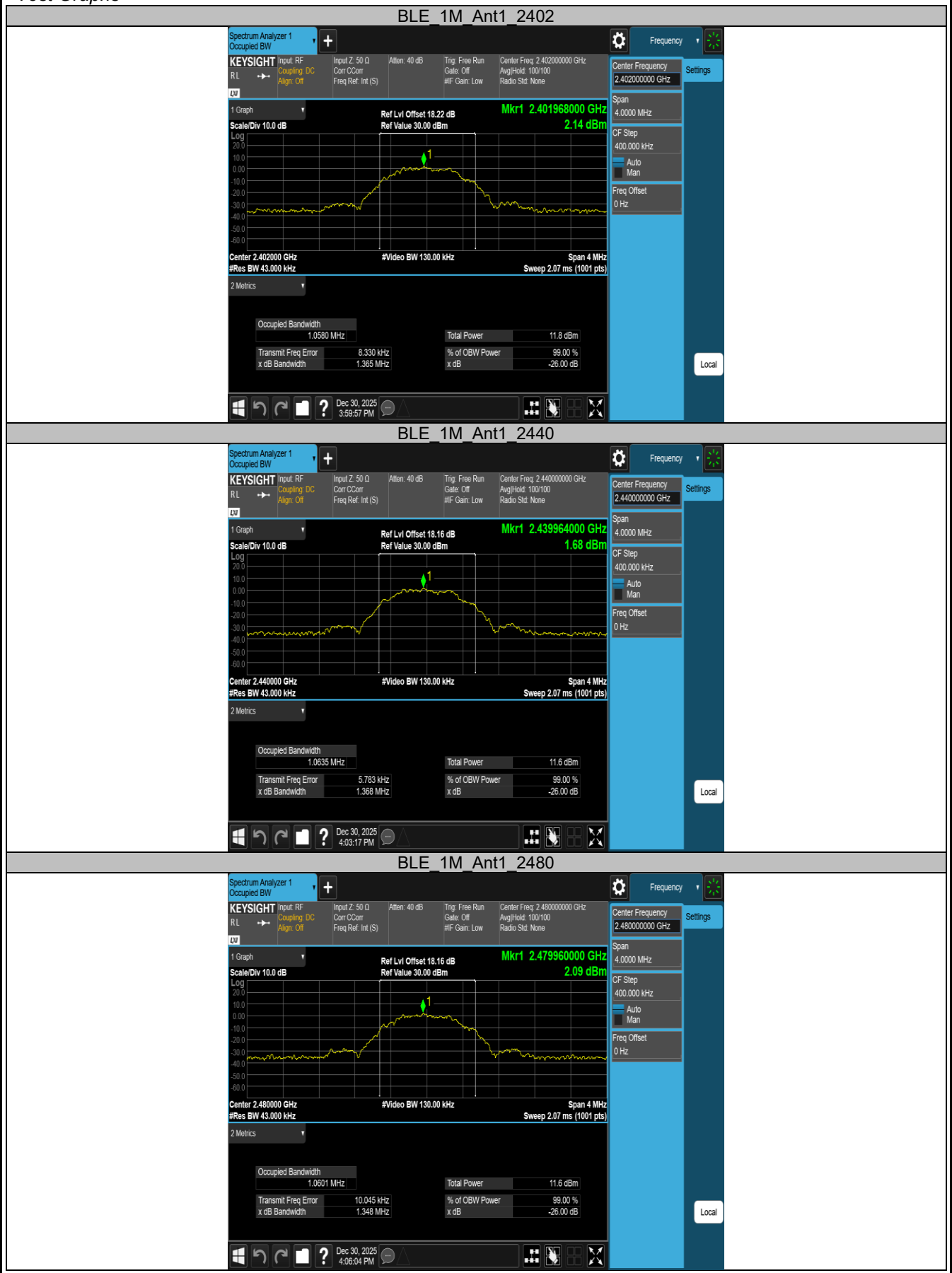


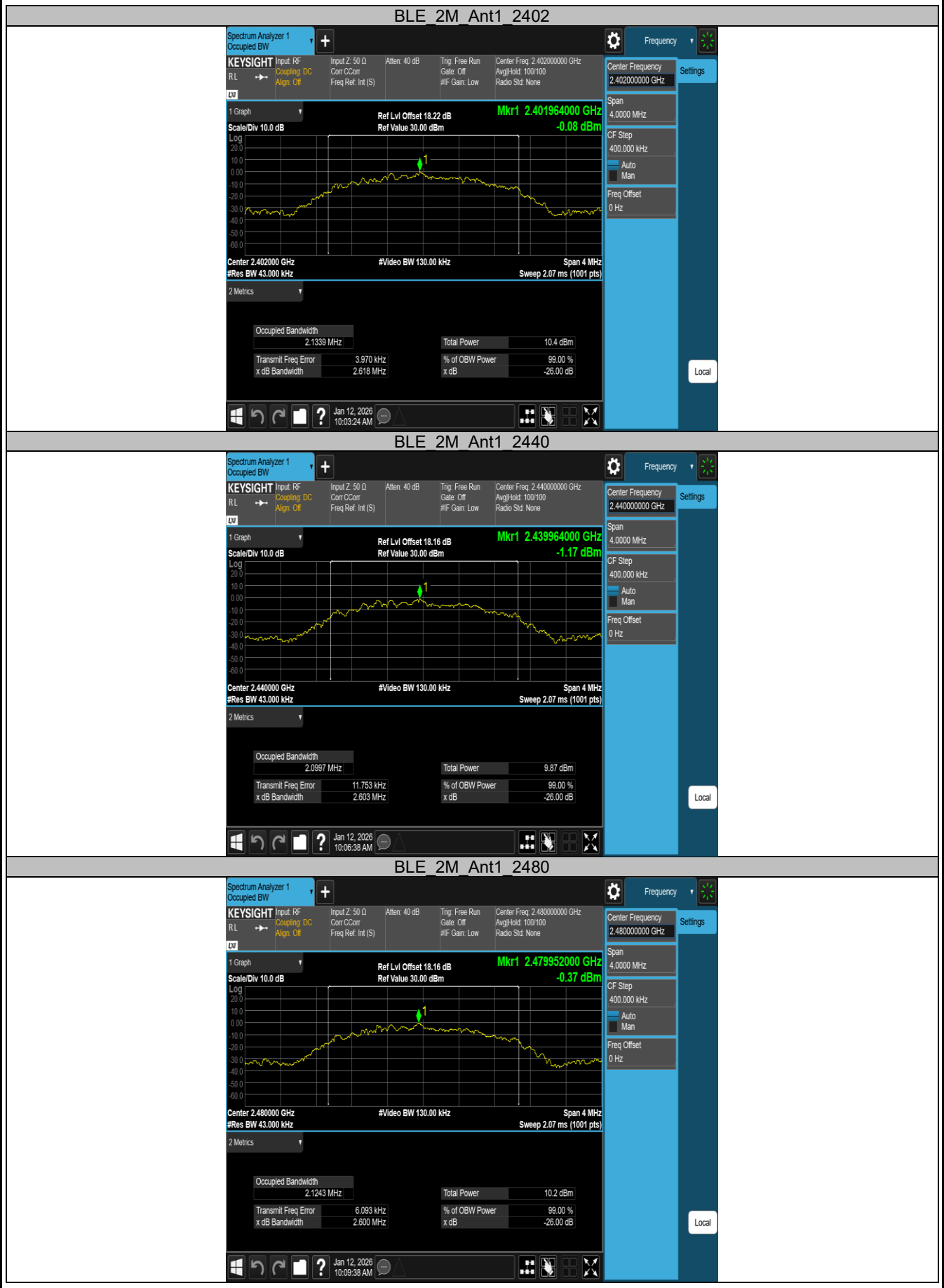
Appendix B.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0580	2401.4793	2402.5373	---	---
		2440	1.0635	2439.4740	2440.5375	---	---
		2480	1.0601	2479.4800	2480.5401	---	---
BLE_2M	Ant1	2402	2.1339	2400.9370	2403.0709	---	---
		2440	2.0997	2438.9619	2441.0616	---	---
		2480	2.1243	2478.9439	2481.0682	---	---

Test Graphs





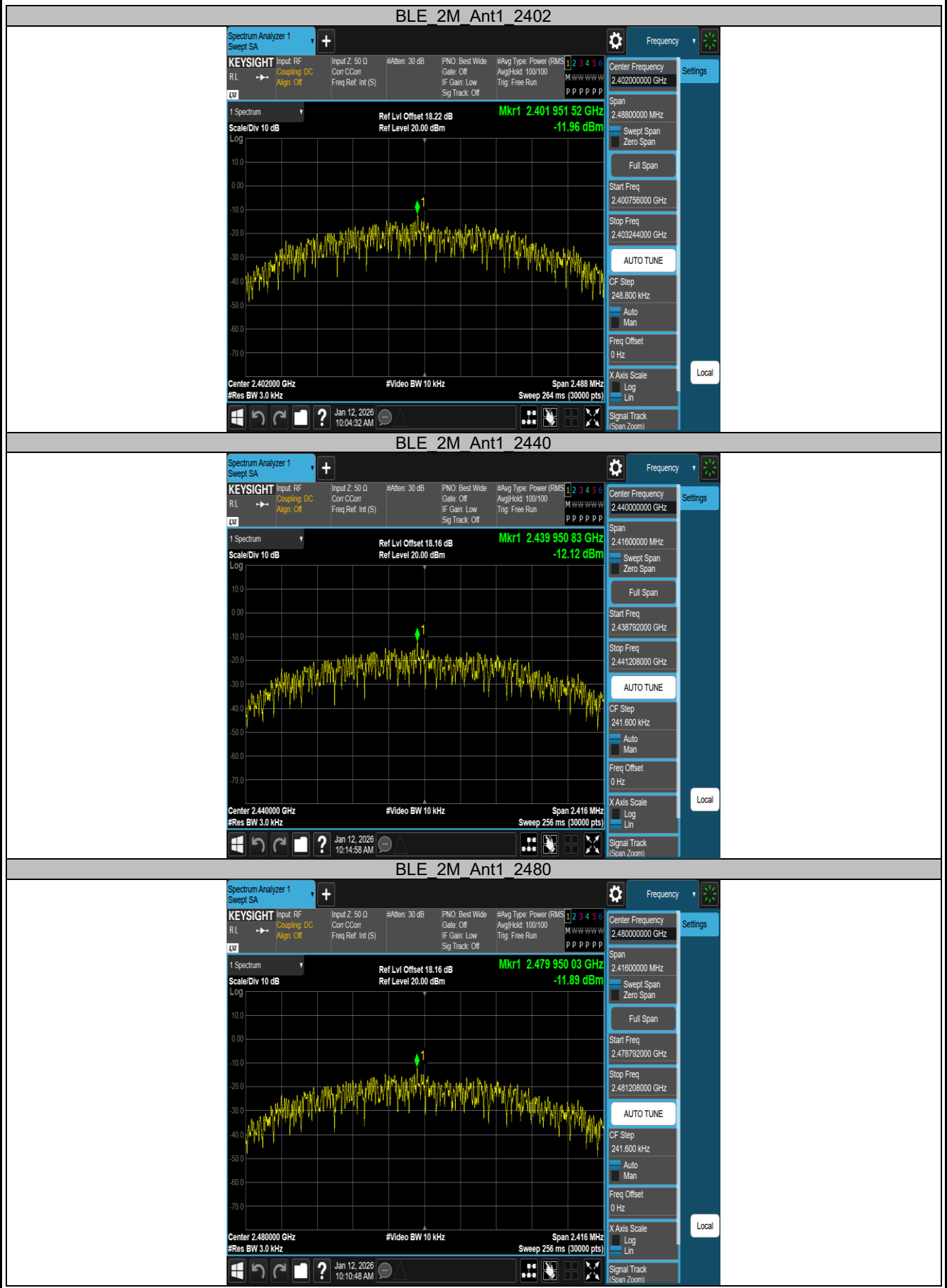
Appendix B.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.92	≤8.00	PASS
		2440	-10.23	≤8.00	PASS
		2480	-9.83	≤8.00	PASS
BLE_2M	Ant1	2402	-11.96	≤8.00	PASS
		2440	-12.12	≤8.00	PASS
		2480	-11.89	≤8.00	PASS

Test Graphs





Appendix B.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.56	-43.02	≤-15.44	PASS
		High	2480	4.34	-43.50	≤-15.66	PASS
BLE_2M	Ant1	Low	2402	3.67	-31.80	≤-16.33	PASS
		High	2480	3.59	-42.98	≤-16.41	PASS

Test Graphs

BLE 1M Ant1 Low 2402



BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402



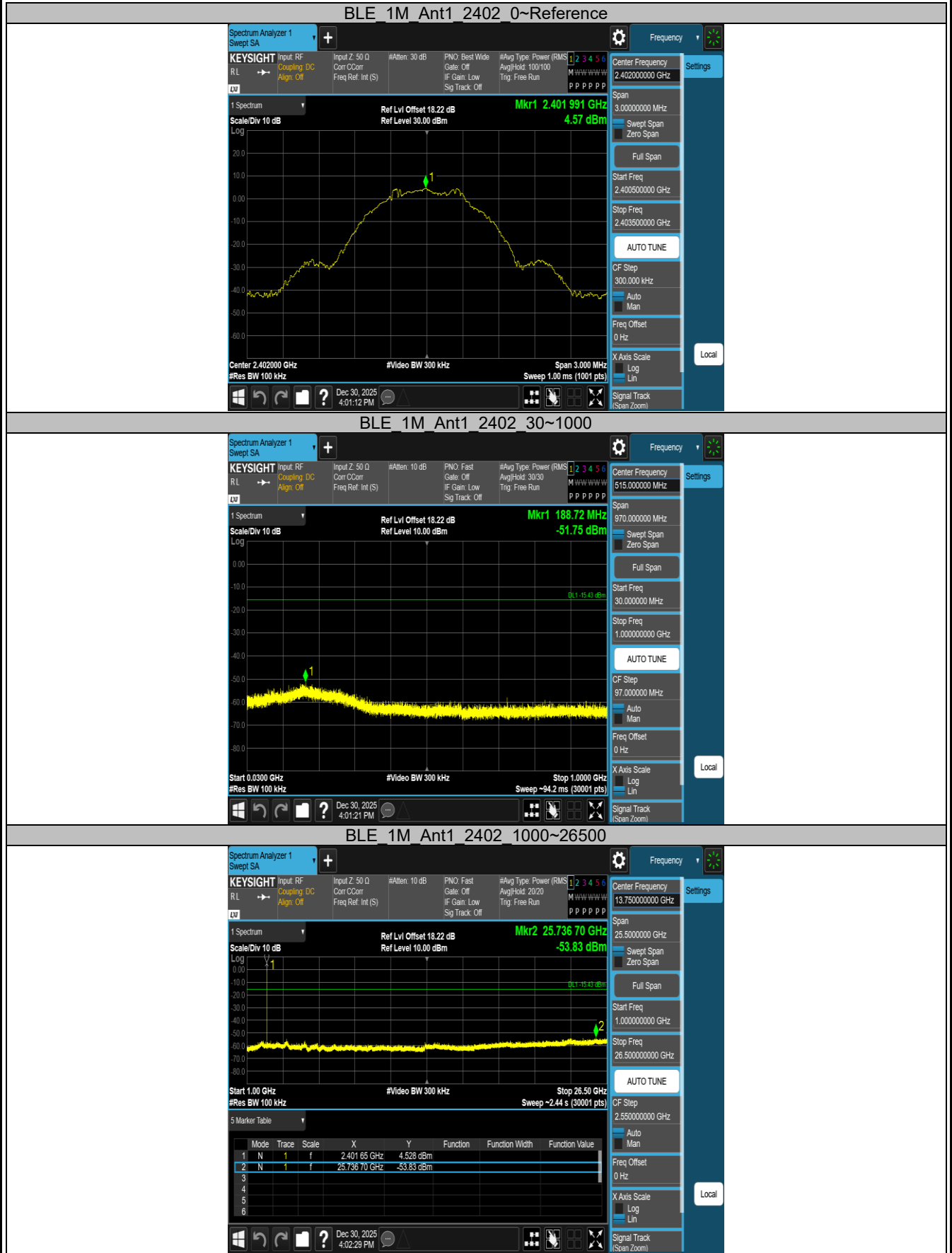


Appendix B.5: Test Results of Conducted Spurious Emission

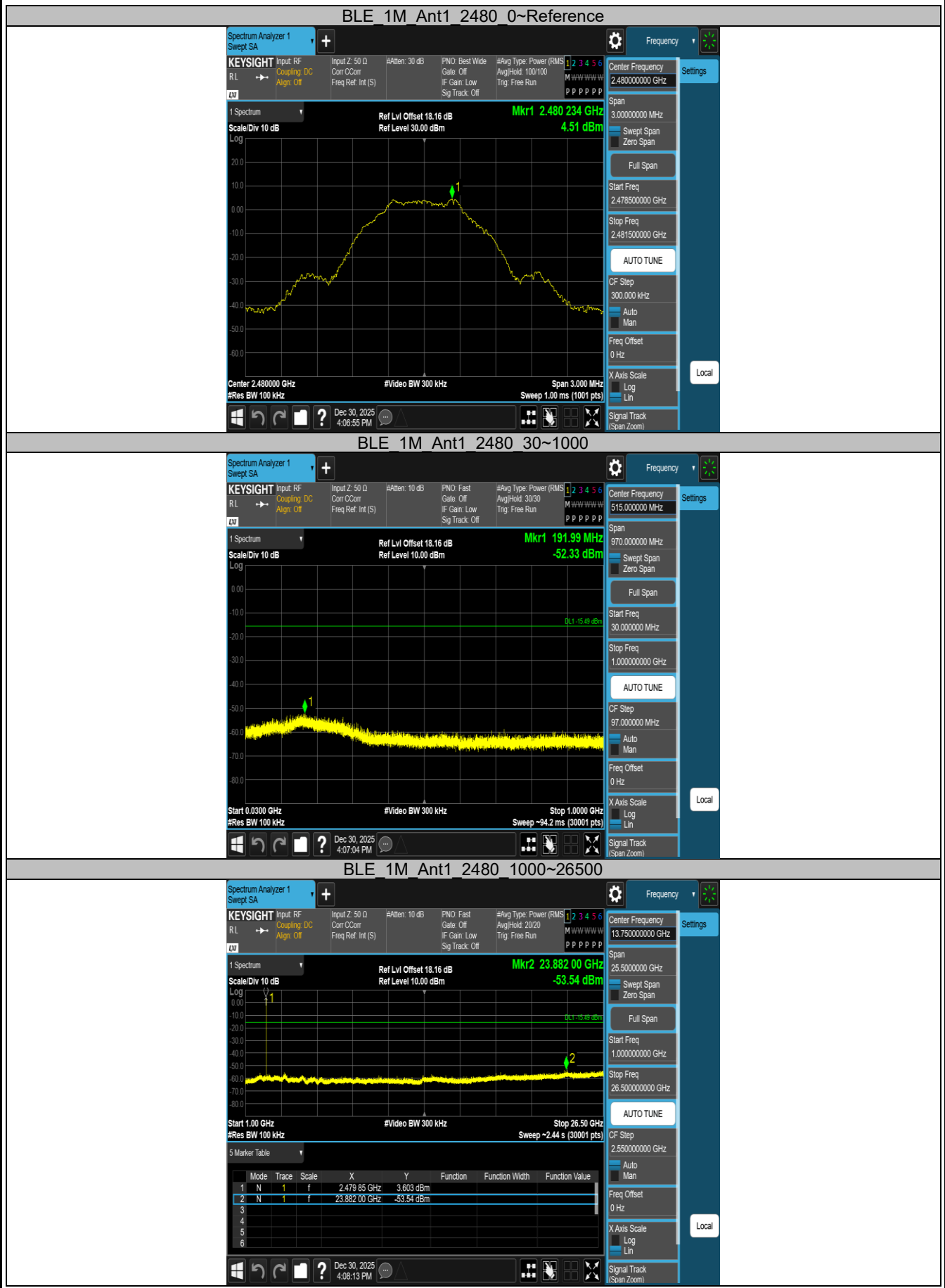
Test Result

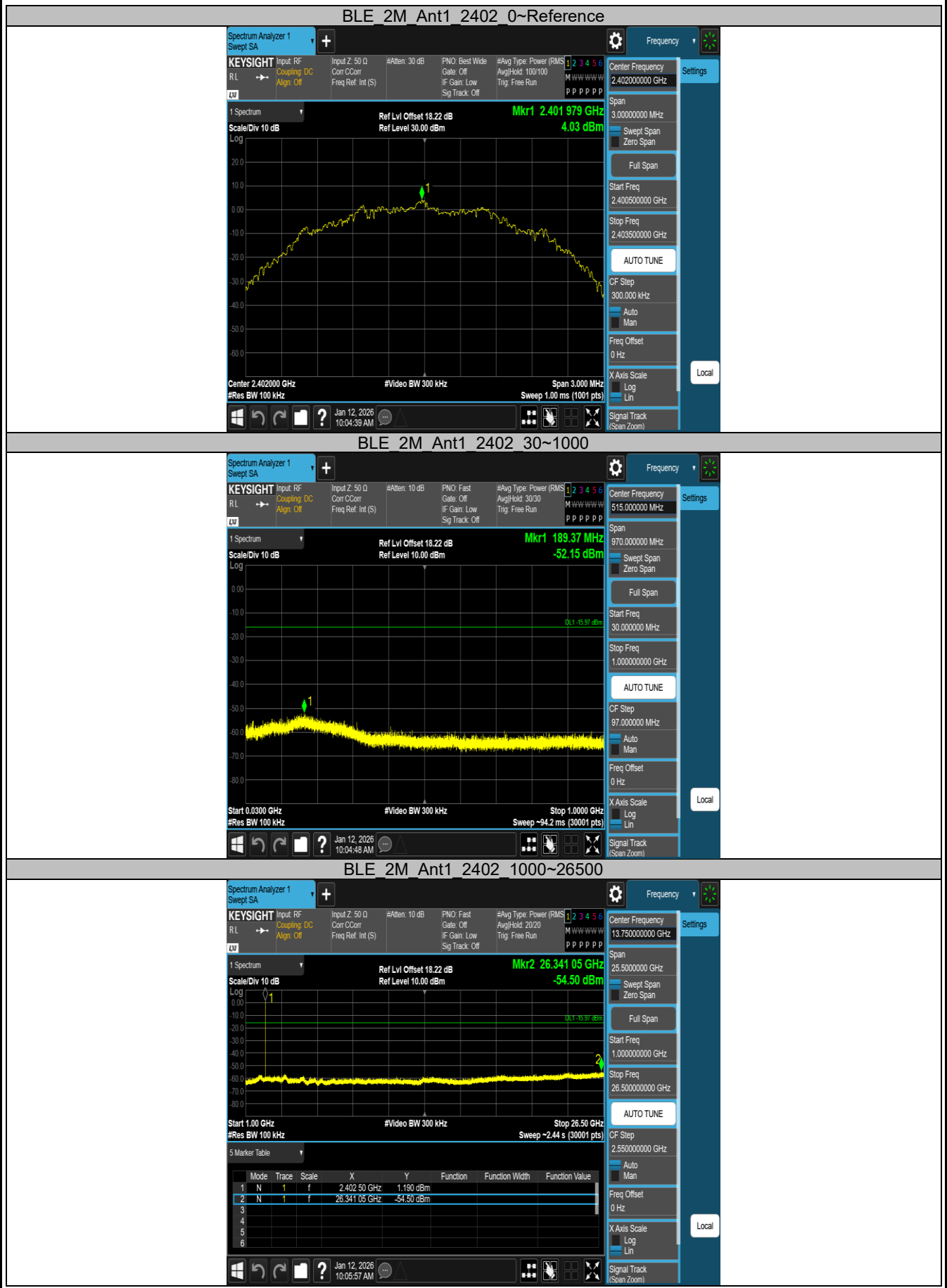
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-51.75	≤-15.43	PASS
			1000~26500	4.57	-53.83	≤-15.43	PASS
		2440	Reference	4.20	4.20	---	PASS
			30~1000	4.20	-51.22	≤-15.8	PASS
			1000~26500	4.20	-53.48	≤-15.8	PASS
		2480	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-52.33	≤-15.49	PASS
			1000~26500	4.51	-53.54	≤-15.49	PASS
BLE_2M	Ant1	2402	Reference	4.03	4.03	---	PASS
			30~1000	4.03	-52.15	≤-15.97	PASS
			1000~26500	4.03	-54.5	≤-15.97	PASS
		2440	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-52.28	≤-16.77	PASS
			1000~26500	3.23	-54.83	≤-16.77	PASS
		2480	Reference	4.07	4.07	---	PASS
			30~1000	4.07	-52.4	≤-15.93	PASS
			1000~26500	4.07	-54.3	≤-15.93	PASS

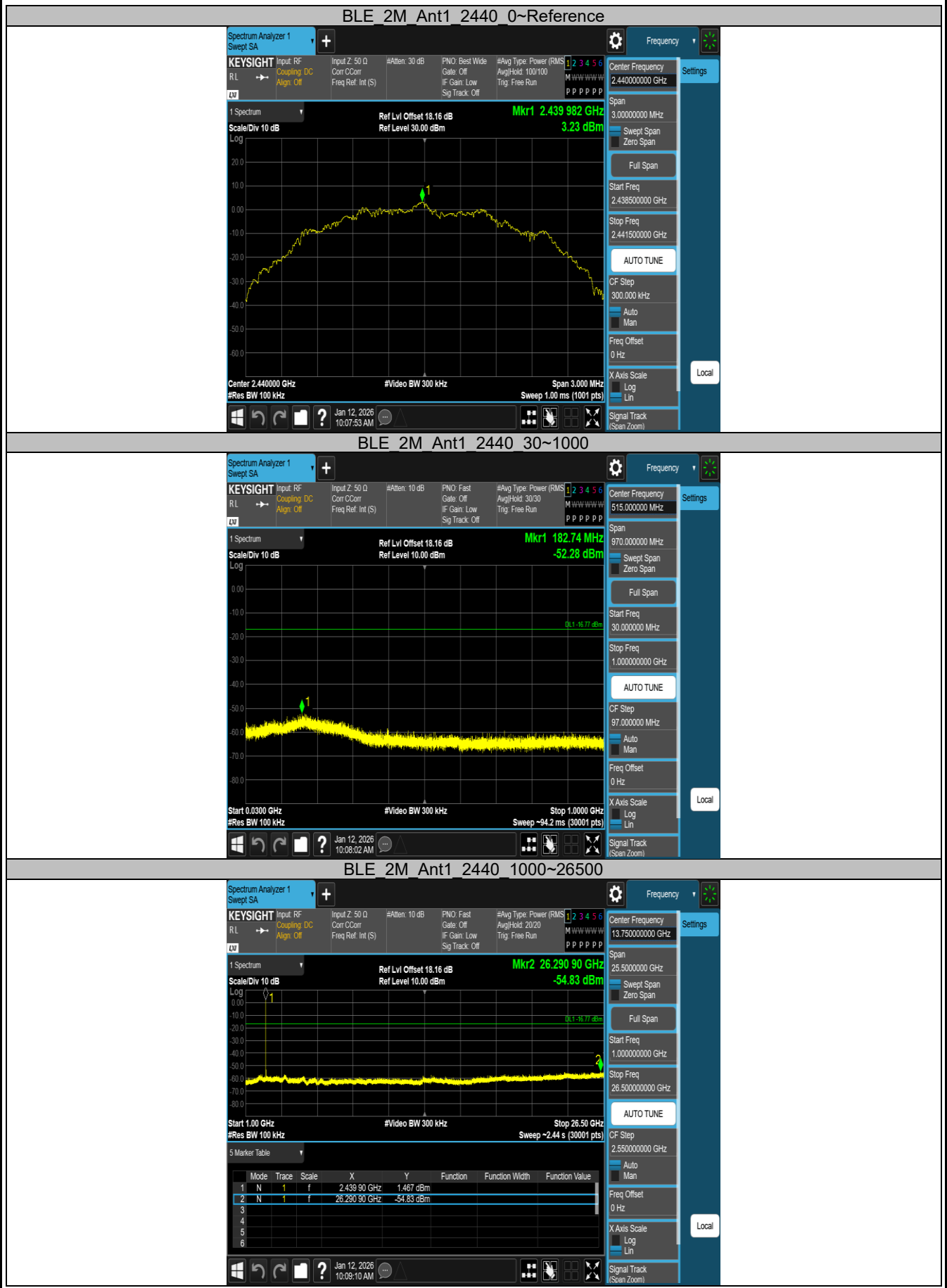
Test Graphs













Appendix B.6: Test Results of Radiated Spurious Emissions

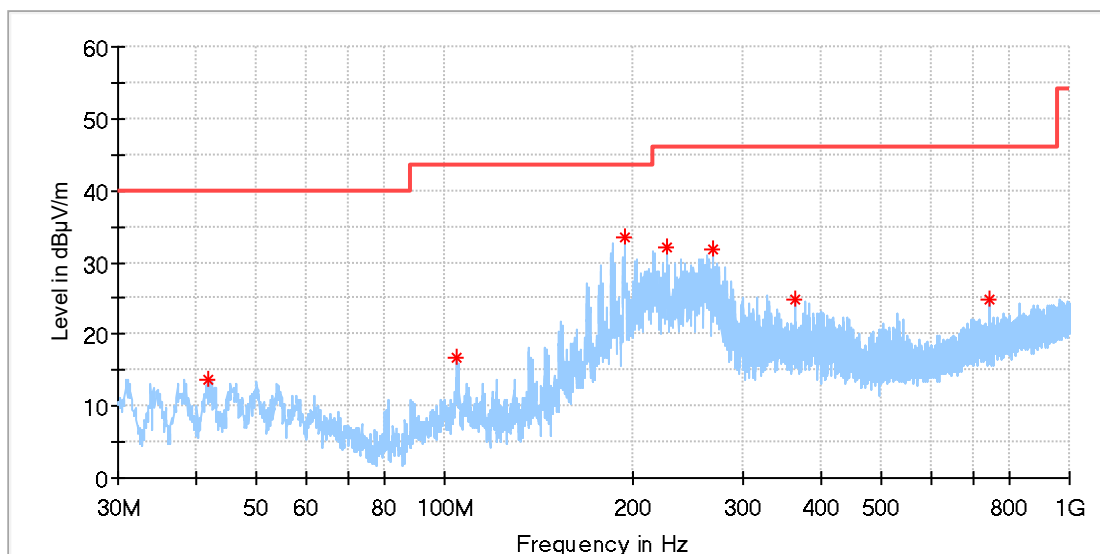
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

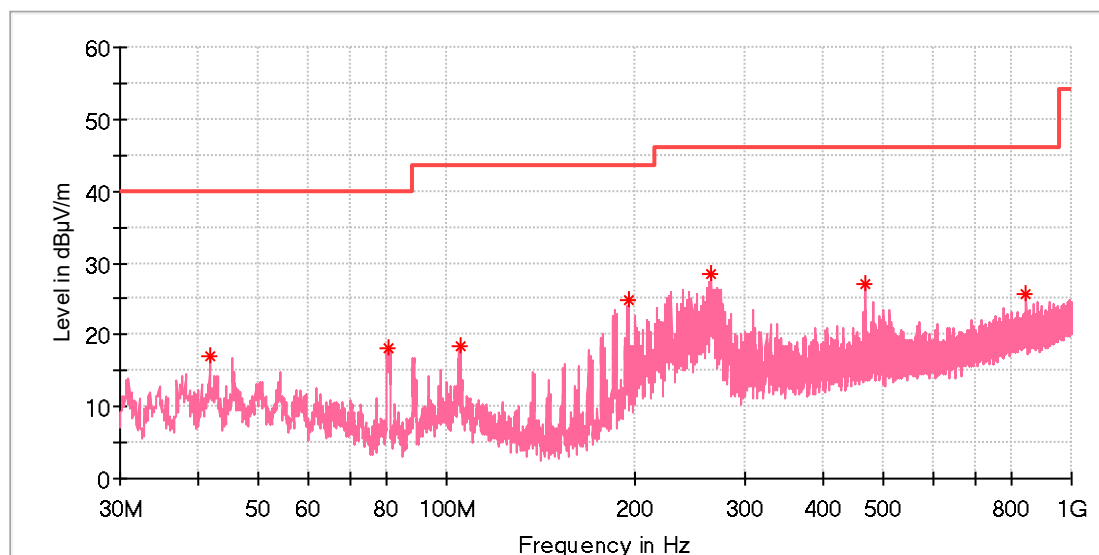
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.747778	13.64	40.00	26.36	100.0	H	265.0	-19.7
104.366667	16.70	43.50	26.80	100.0	H	308.0	-18.9
194.145556	33.38	43.50	10.12	100.0	H	244.0	-19.3
226.910000	32.06	46.00	13.94	100.0	H	265.0	-18.3
267.973333	31.70	46.00	14.30	100.0	H	185.0	-17.0
363.141111	24.93	46.00	21.07	100.0	H	69.0	-14.6
742.518889	24.88	46.00	21.12	100.0	H	109.0	-7.2

Final_Result

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

EUT Information

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Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
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)
41.747778	17.01	40.00	22.99	100.0	V	0.0	-19.7
80.817222	18.19	40.00	21.81	100.0	V	228.0	-23.4
104.851667	18.42	43.50	25.08	100.0	V	221.0	-18.9
195.007778	24.91	43.50	18.59	100.0	V	205.0	-19.3
264.524444	28.47	46.00	17.53	100.0	V	284.0	-17.0
467.739444	27.20	46.00	18.80	100.0	V	188.0	-12.4
846.955556	25.55	46.00	20.45	100.0	V	161.0	-5.4

Final Result

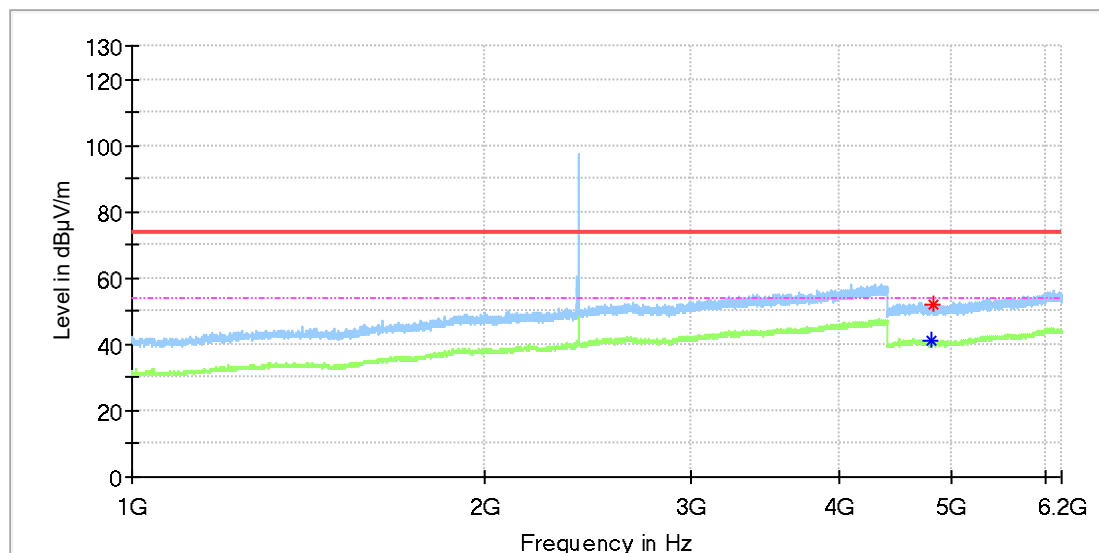
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
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Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

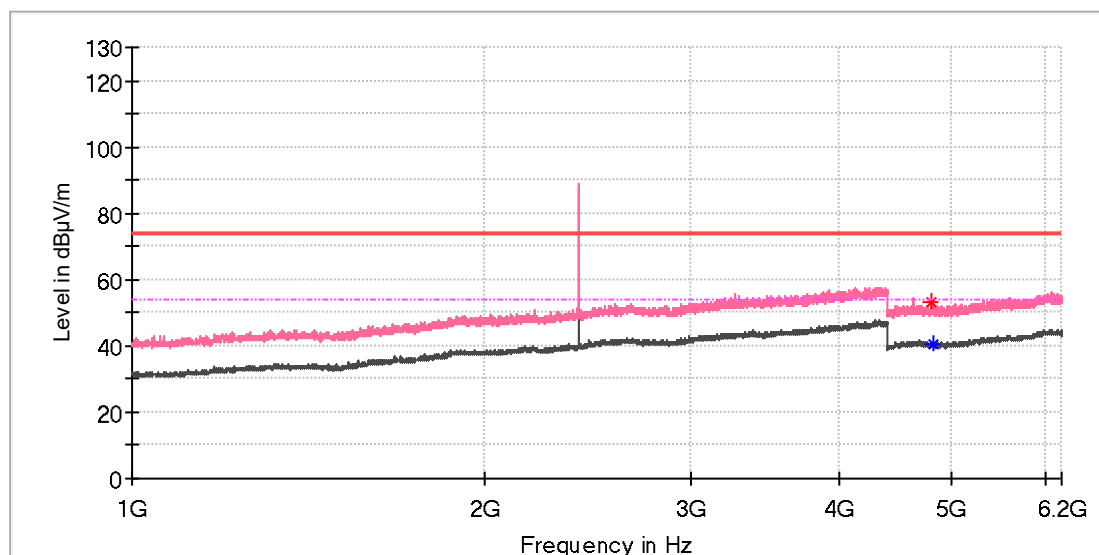
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4807.500000	---	40.99	54.00	13.01	150.0	H	32.0	13.3
4814.500000	51.75	---	74.00	22.25	150.0	H	166.0	13.3

Final Result

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

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Critical_Freqs

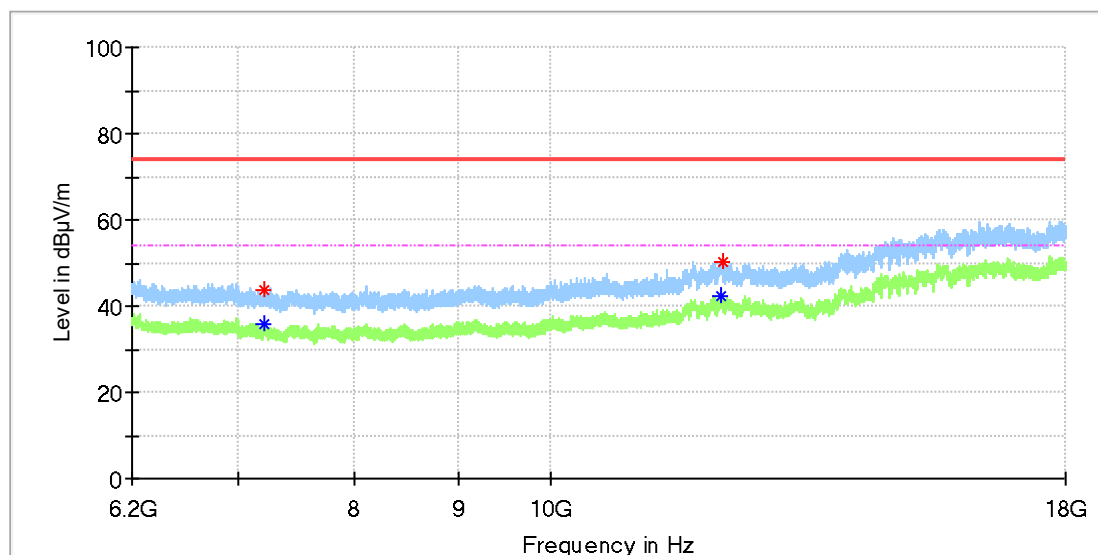
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4807.000000	53.01	---	74.00	20.99	150.0	V	82.0	13.3
4812.000000	---	40.73	54.00	13.27	150.0	V	76.0	13.3

Final Result

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

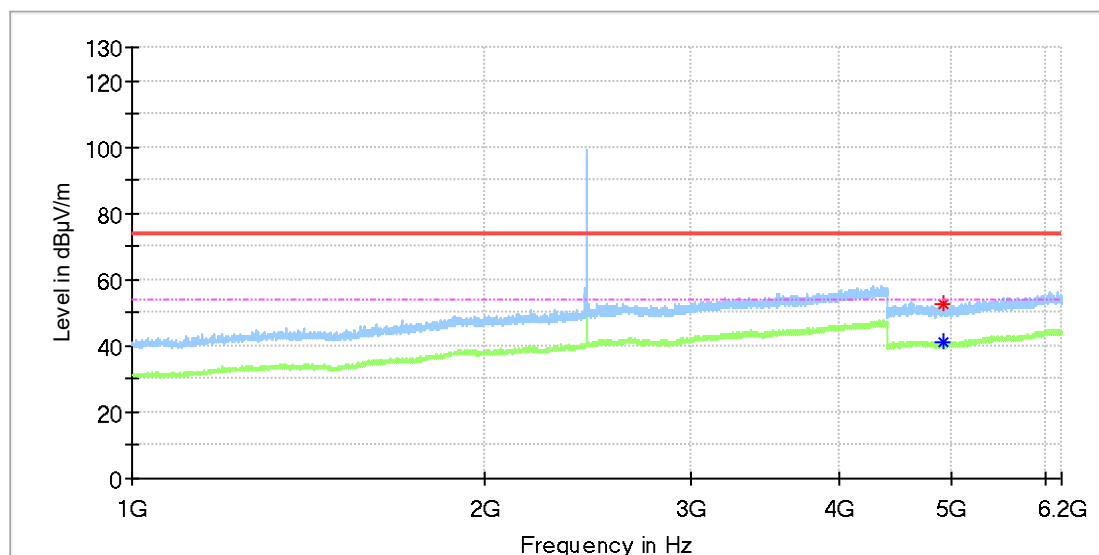
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7208.900000	43.69	---	74.00	30.31	150.0	H	287.0	8.8
7216.766667	---	35.59	54.00	18.41	150.0	H	342.0	8.7
12159.491667	---	42.48	54.00	11.52	150.0	H	49.0	16.2
12162.933333	50.38	---	74.00	23.62	150.0	H	353.0	16.1

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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Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

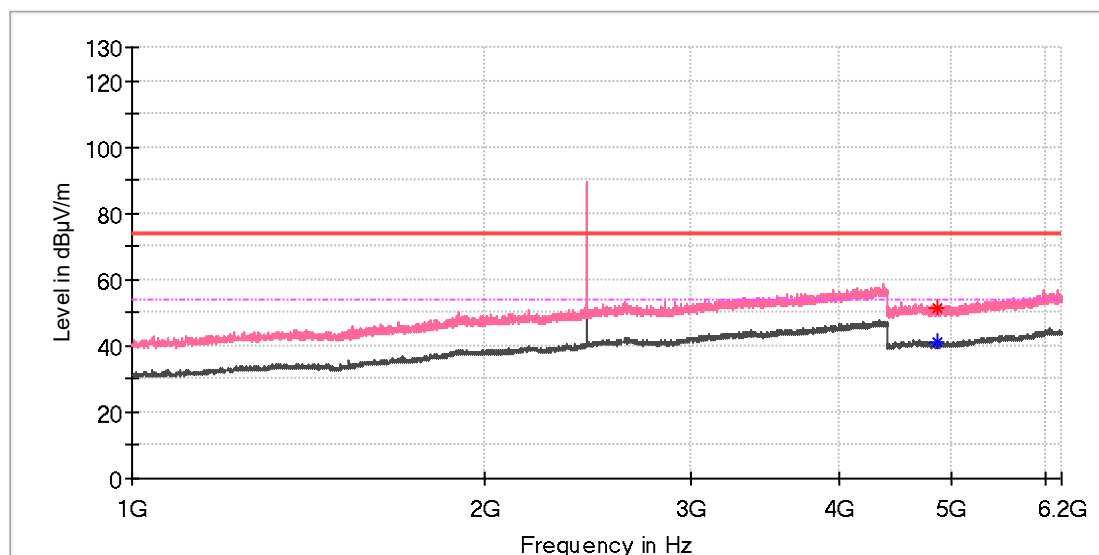
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4907.500000	---	41.14	54.00	12.86	150.0	H	293.0	13.3
4914.500000	52.81	---	74.00	21.19	150.0	H	156.0	13.3

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:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

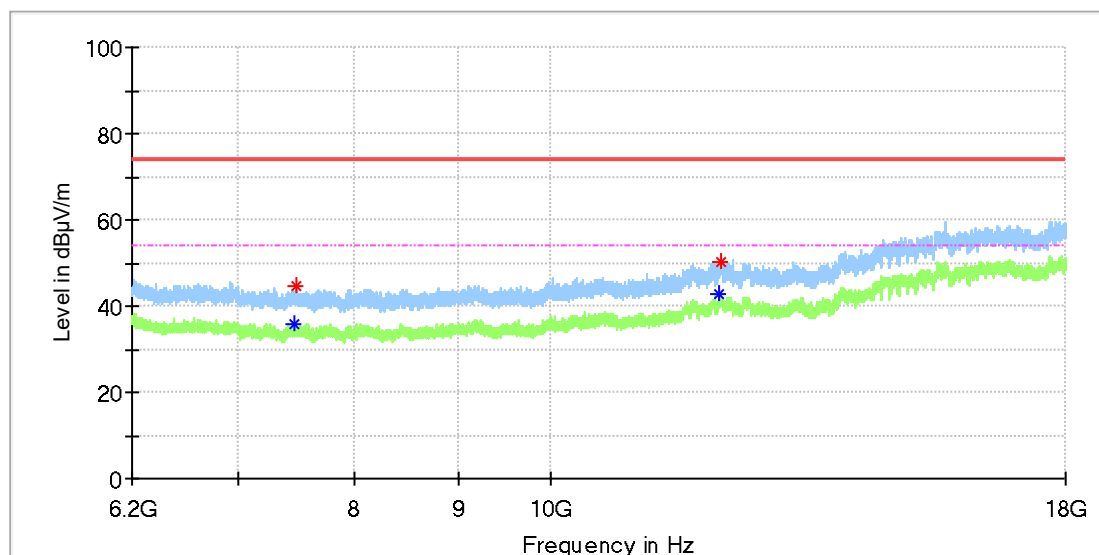
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4860.000000	51.69	---	74.00	22.31	150.0	V	38.0	13.3
4862.500000	---	40.96	54.00	13.04	150.0	V	1.0	13.3

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
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Critical_Freqs

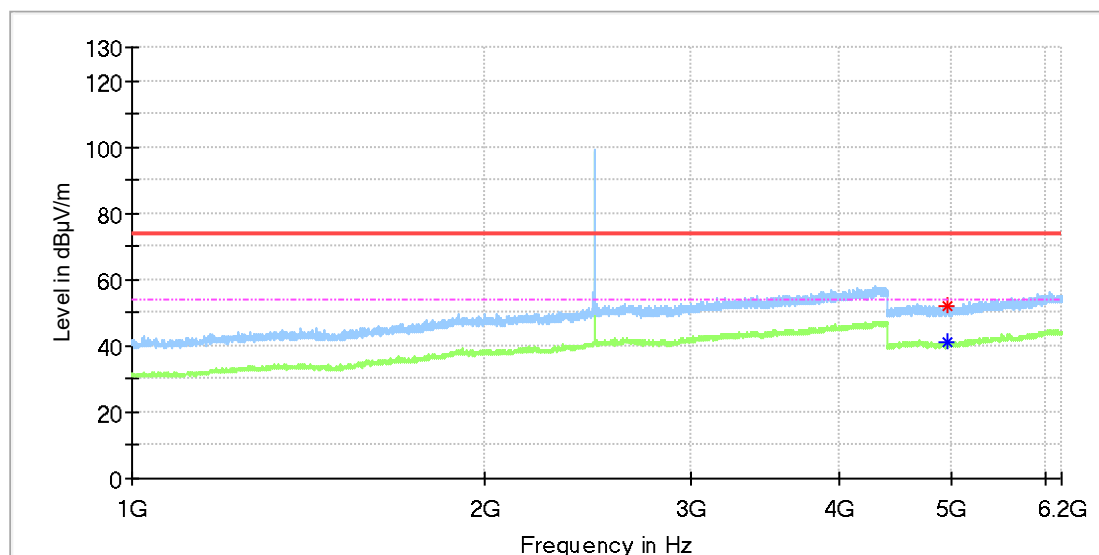
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7456.700000	---	35.97	54.00	18.03	150.0	H	303.0	8.5
7481.775000	44.60	---	74.00	29.40	150.0	H	246.0	8.7
12125.075000	---	42.60	54.00	11.40	150.0	H	358.0	16.1
12141.791667	50.28	---	74.00	23.72	150.0	H	268.0	16.5

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

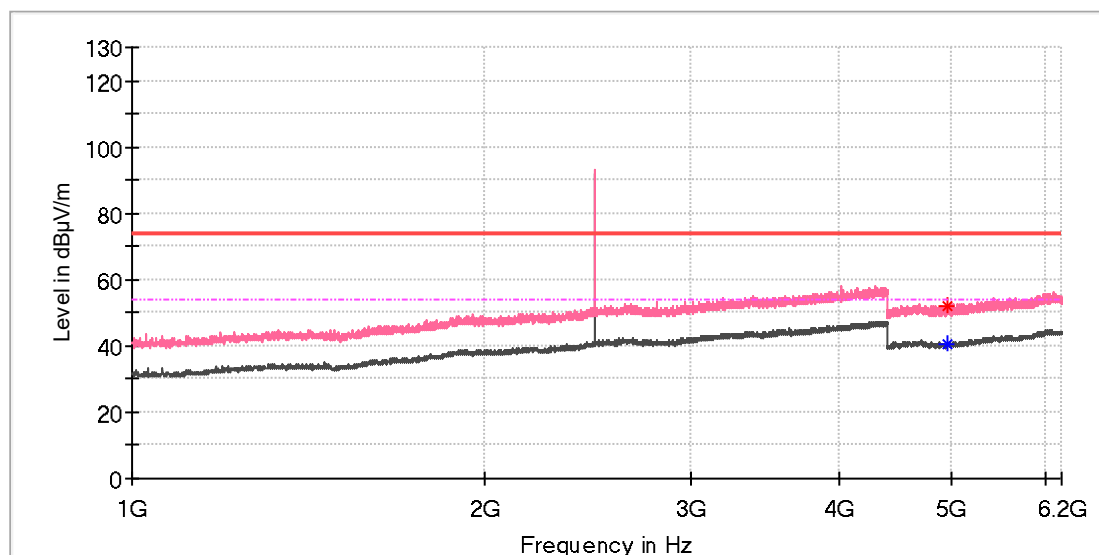
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4954.000000	---	40.94	54.00	13.06	150.0	H	194.0	13.3
4957.500000	52.25	---	74.00	21.75	150.0	H	220.0	13.3

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:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

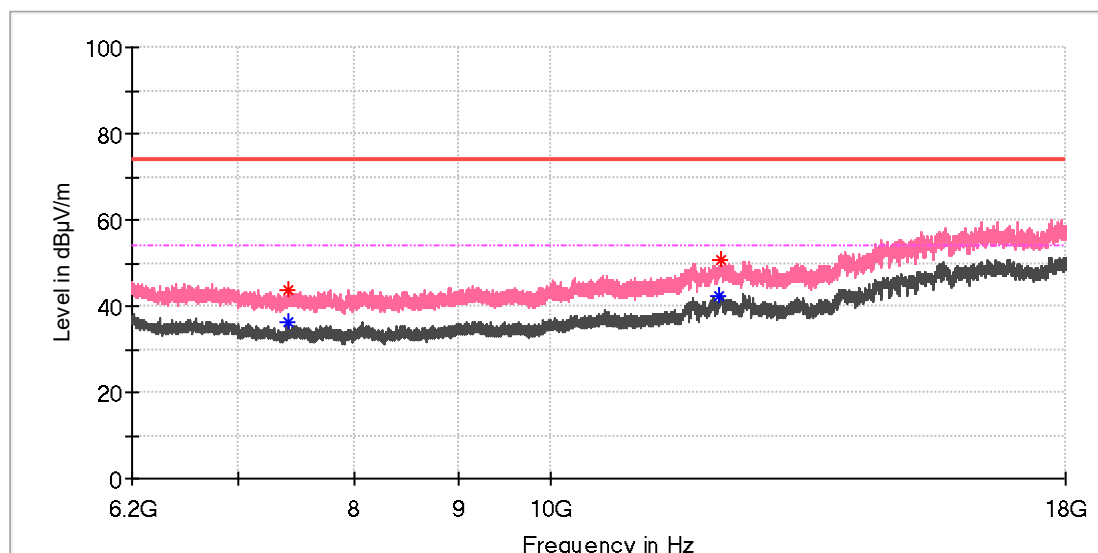
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4950.500000	51.90	---	74.00	22.10	150.0	V	355.0	13.3
4959.000000	---	40.65	54.00	13.35	150.0	V	121.0	13.3

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:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
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)
7414.416667	43.51	---	74.00	30.49	150.0	V	118.0	8.3
7415.400000	---	36.34	54.00	17.66	150.0	V	39.0	8.3
12130.483333	---	42.48	54.00	11.52	150.0	V	162.0	16.2
12148.183333	50.69	---	74.00	23.31	150.0	V	141.0	16.7

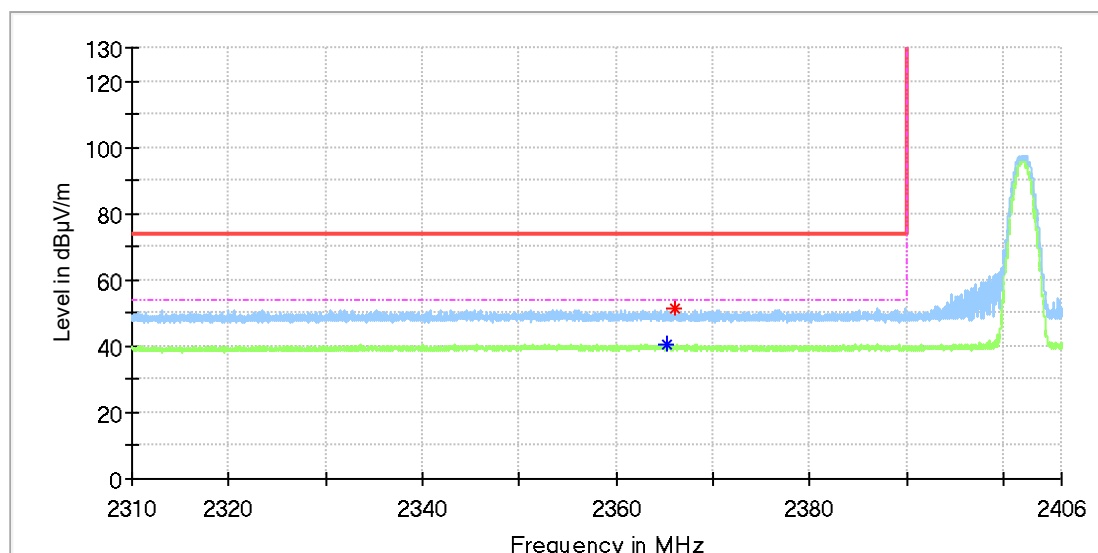
Final Result

[illegible]

Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
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)
2365.341177	---	40.39	54.00	13.61	150.0	H	121.0	8.5
2366.047059	51.41	---	74.00	22.59	150.0	H	114.0	8.5

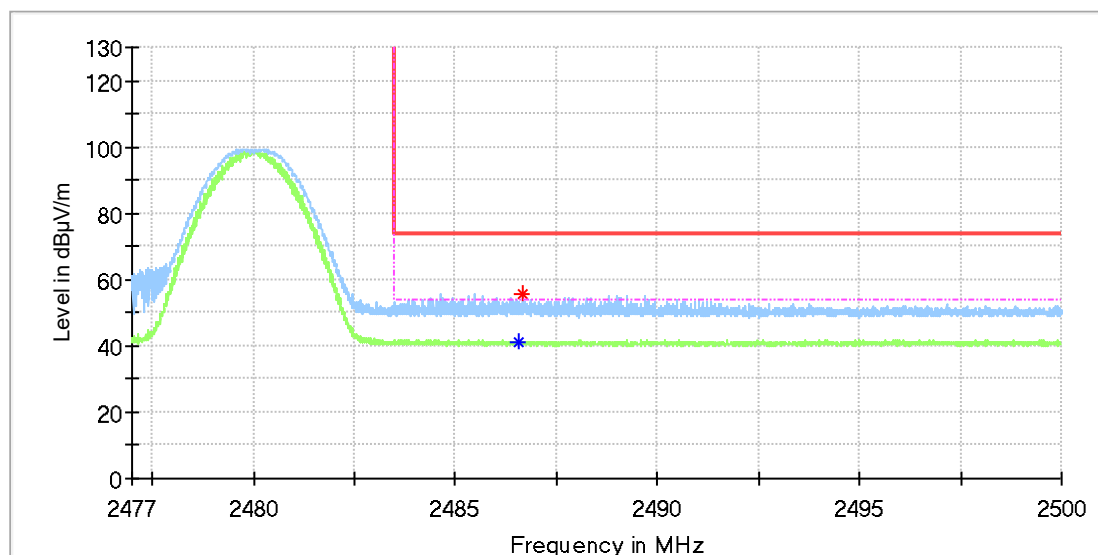
Final Result

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

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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EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

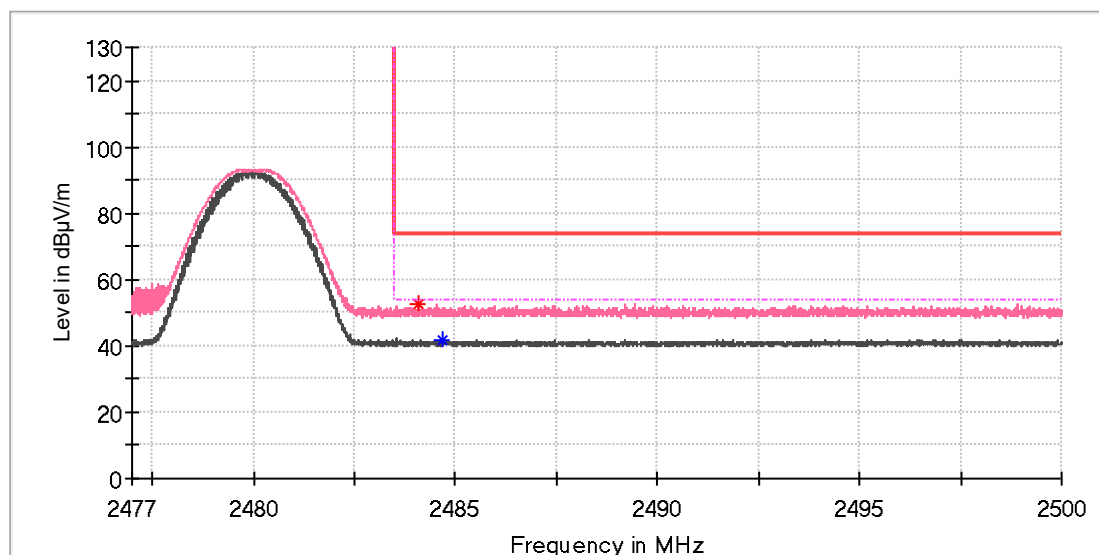
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.552941	---	41.31	54.00	12.69	150.0	H	233.0	9.0
2486.663235	55.74	---	74.00	18.26	150.0	H	299.0	9.0

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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EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
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Test Standard:	FCC 15.247
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Critical_Freqs

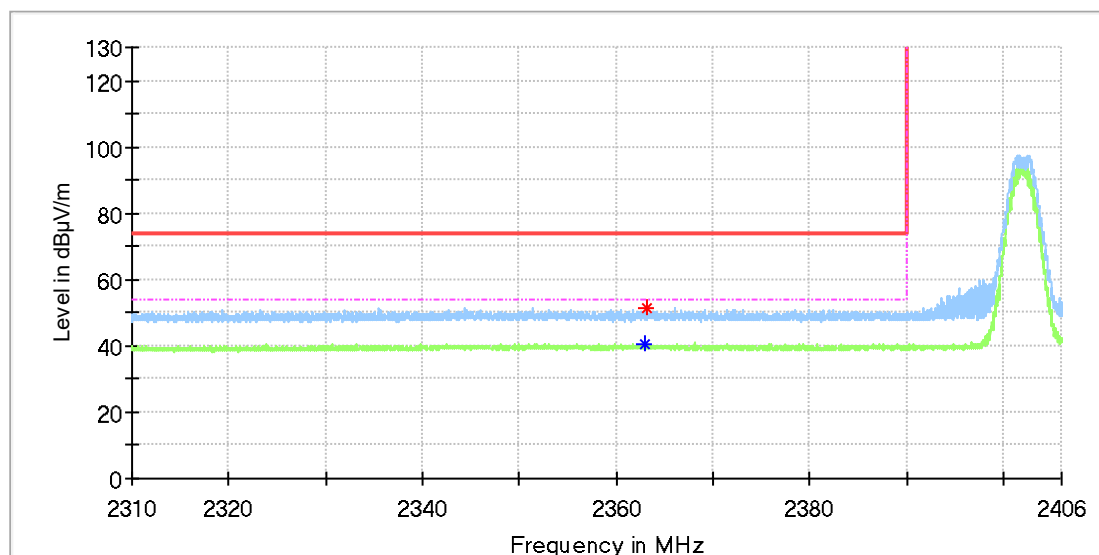
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.088235	52.76	---	74.00	21.24	150.0	V	122.0	9.0
2484.680147	---	41.51	54.00	12.49	150.0	V	0.0	9.0

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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EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

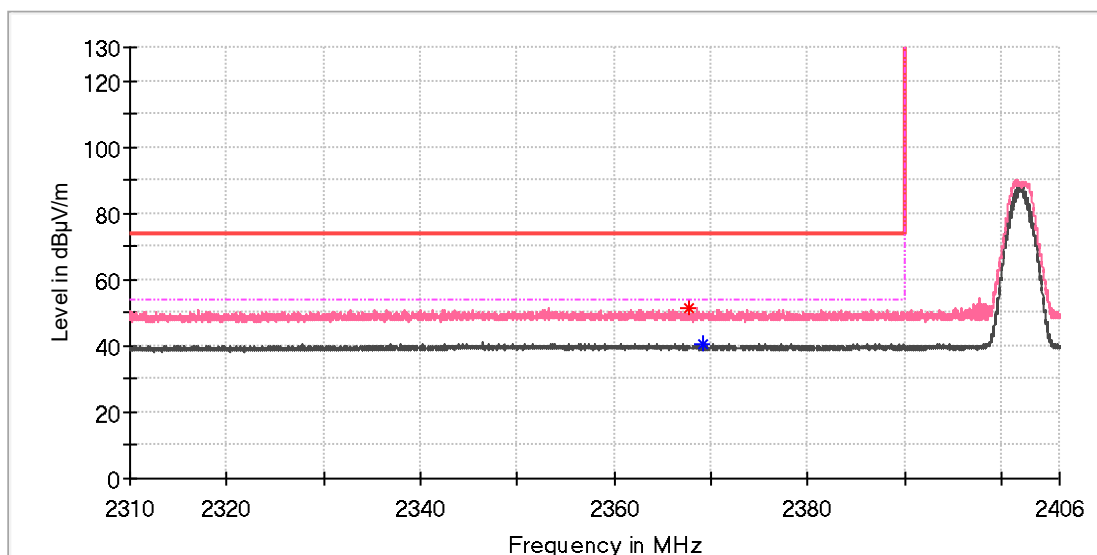
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2362.897059	---	40.31	54.00	13.69	150.0	H	257.0	8.5
2363.220588	51.47	---	74.00	22.53	150.0	H	343.0	8.5

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

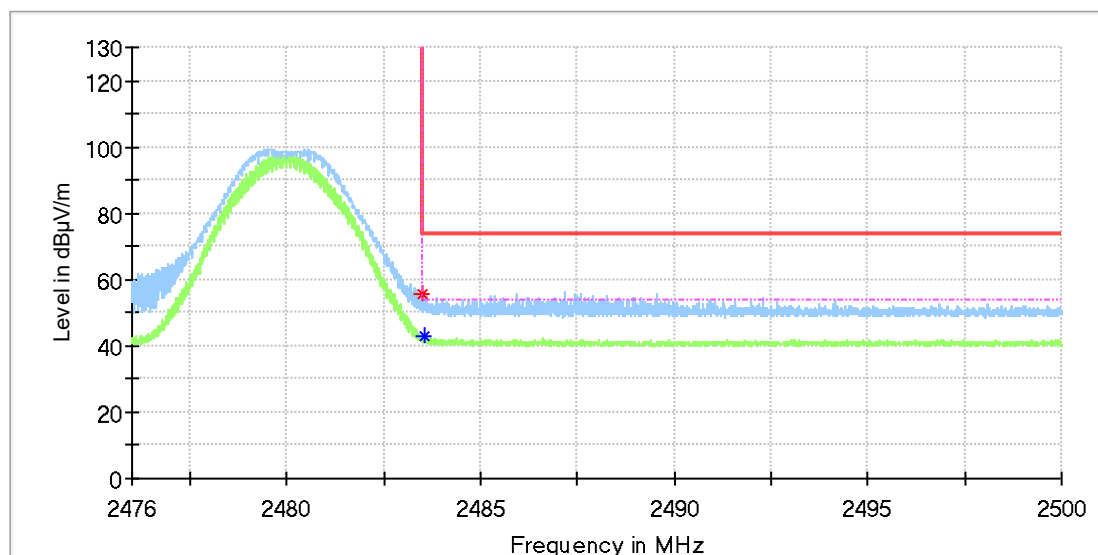
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2367.741177	51.42	---	74.00	22.58	150.0	V	5.0	8.5
2369.124706	---	40.32	54.00	13.68	150.0	V	51.0	8.5

Final Result

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

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168583409/A004135263-004
Test Voltage:	DC 5V From USB
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Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

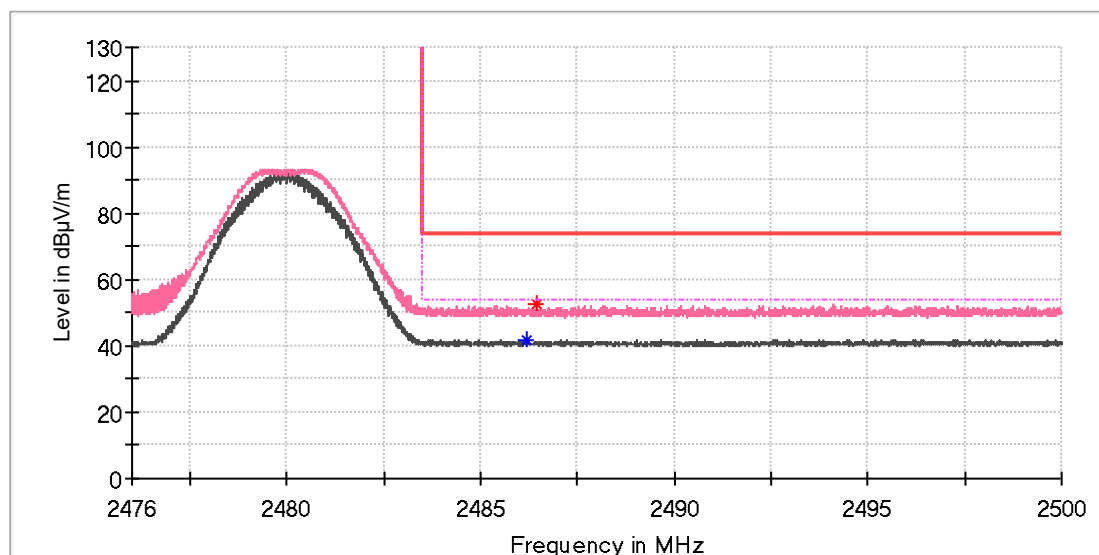
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.522059	55.85	---	74.00	18.15	150.0	H	112.0	9.0
2483.566177	---	42.88	54.00	11.12	150.0	H	106.0	9.0

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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EUT Information

EUT Name:	WIFI+BT Module
Model:	WKCT2VM2511
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168583409/A004135263-004
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Tested By:	Kei Zhang
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Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.200000	---	41.81	54.00	12.19	150.0	V	148.0	9.0
2486.433824	52.67	---	74.00	21.33	150.0	V	165.0	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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