



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Translate Earphone

Test Model: M8

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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B.1 DTS Bandwidth

Right Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.672	2402.332	0.5	PASS
		2440	0.668	2439.668	2440.336	0.5	PASS
		2480	0.684	2479.664	2480.348	0.5	PASS



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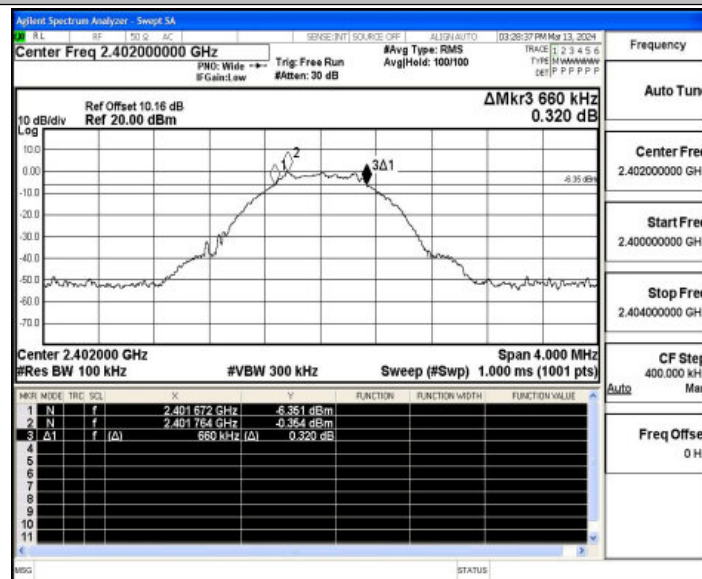
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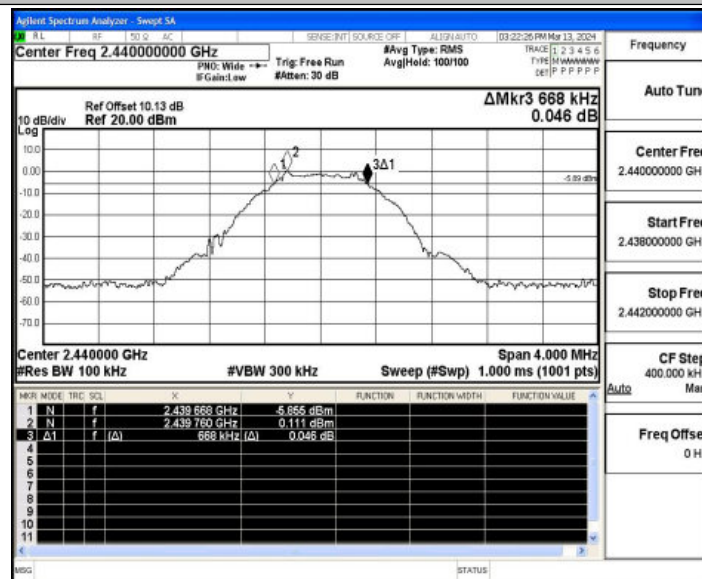


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

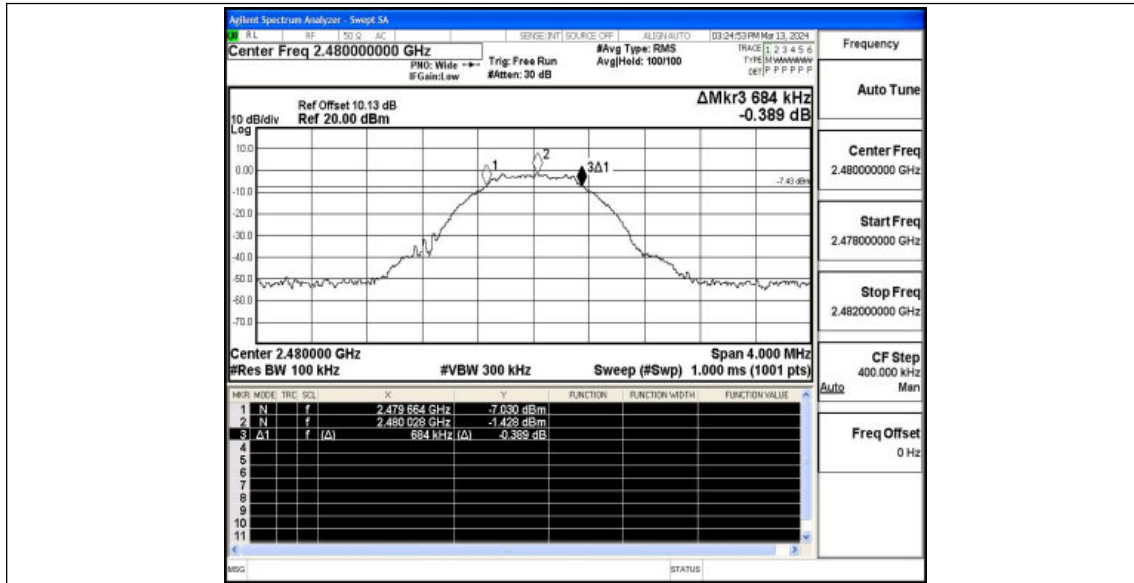


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Left Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.672	2402.348	0.5	PASS
		2440	0.656	2439.676	2440.332	0.5	PASS
		2480	0.676	2479.672	2480.348	0.5	PASS



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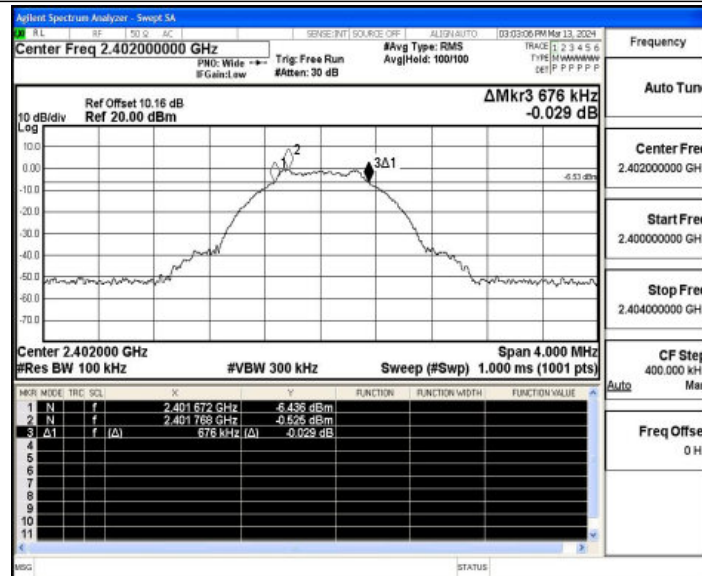
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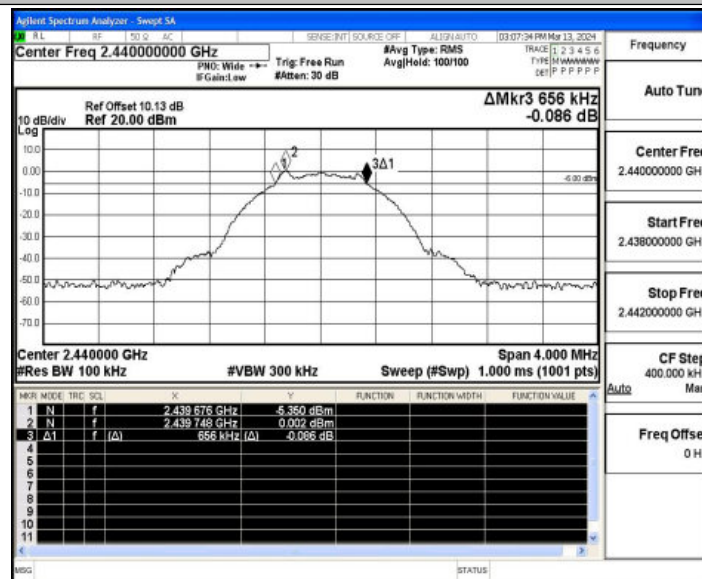


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

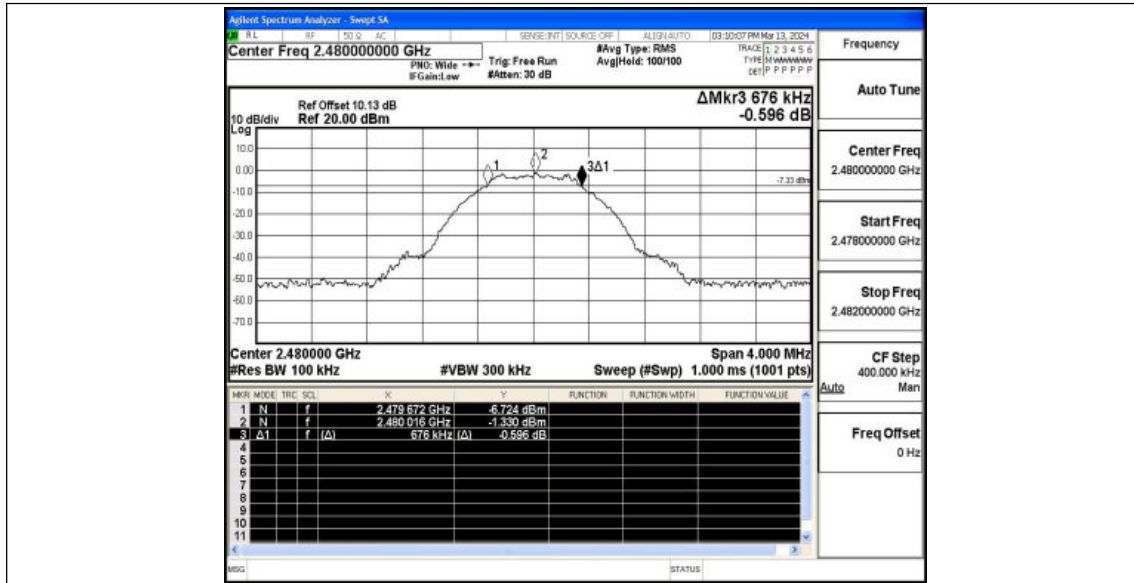


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B.2 Maximum conducted output power

Right Ear:

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.30	≤30	PASS
		2440	0.74	≤30	PASS
		2480	-0.34	≤30	PASS



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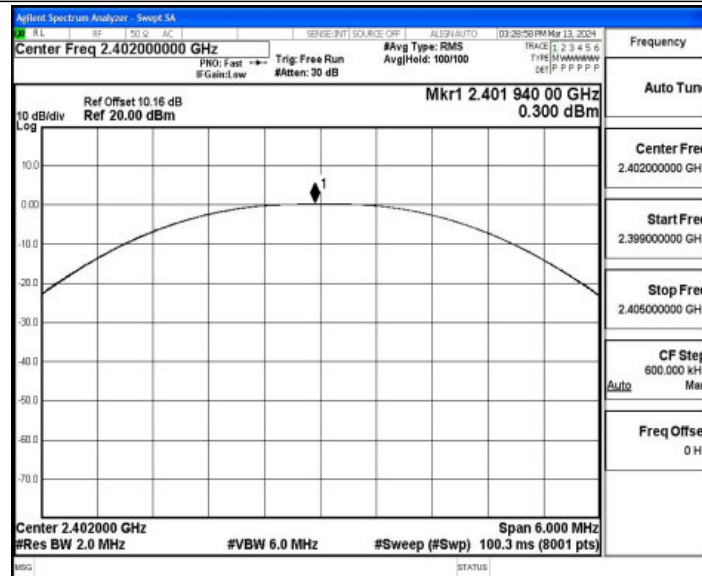
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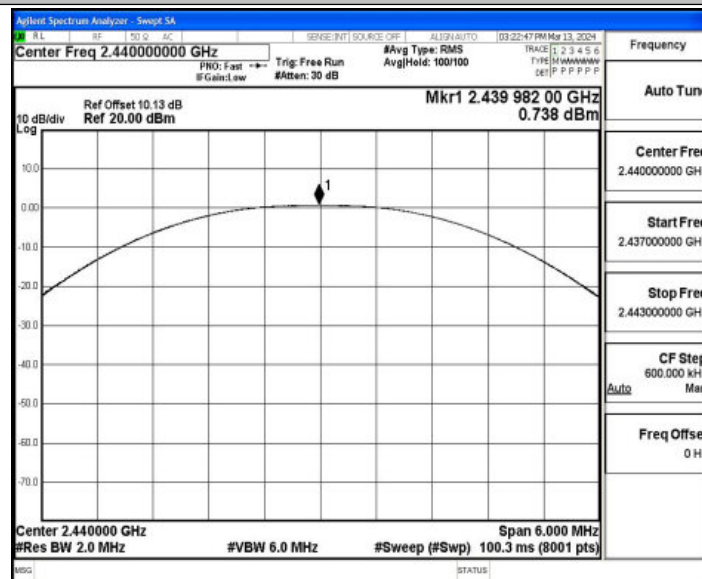


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Agilent Spectrum Analyzer - Sweep 5A

Center Freq 2.480000000 GHz

Ref Offset 10.13 dB
Ref 20.00 dBm

Mkr1 2.480 035 25 GHz
-0.340 dBm

Span 6.000 MHz

#Res BW 2.0 MHz

#VBW 6.0 MHz

#Sweep (#Swp) 100.3 ms (8001 pts)

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.477000000 GHz

Stop Freq
2.483000000 GHz

CF Step
600.000 kHz

Auto Man

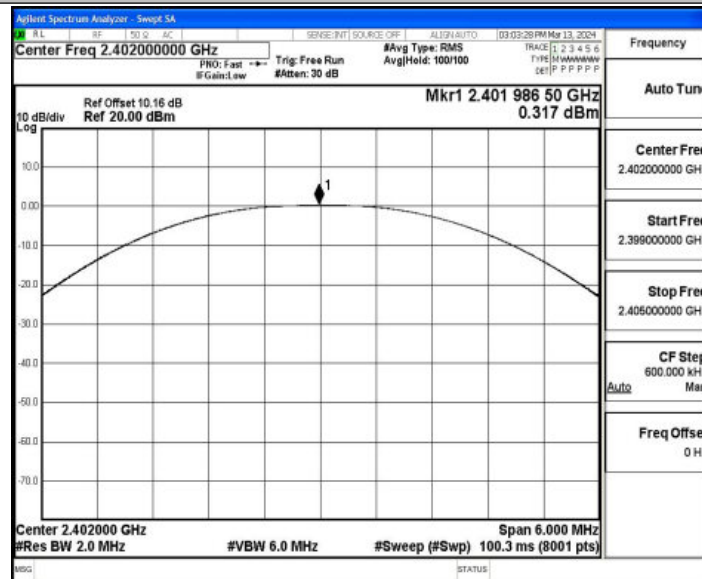
Freq Offset
0 Hz

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.32	≤30	PASS
		2440	0.67	≤30	PASS
		2480	-0.41	≤30	PASS

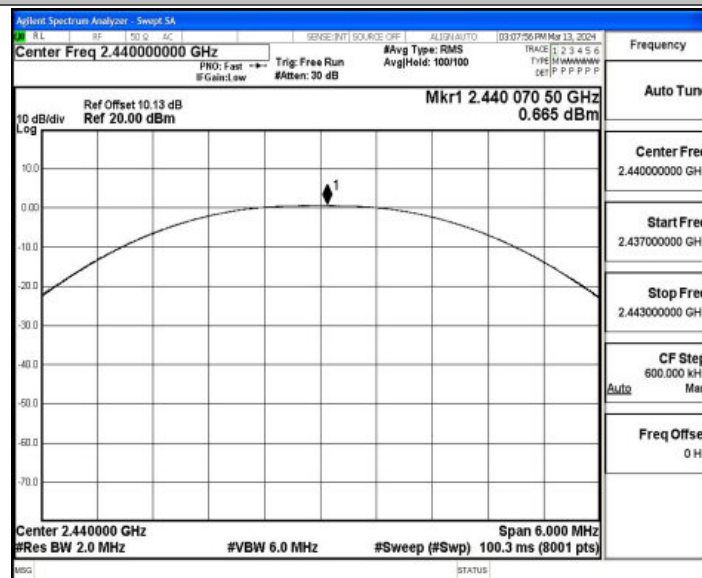


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

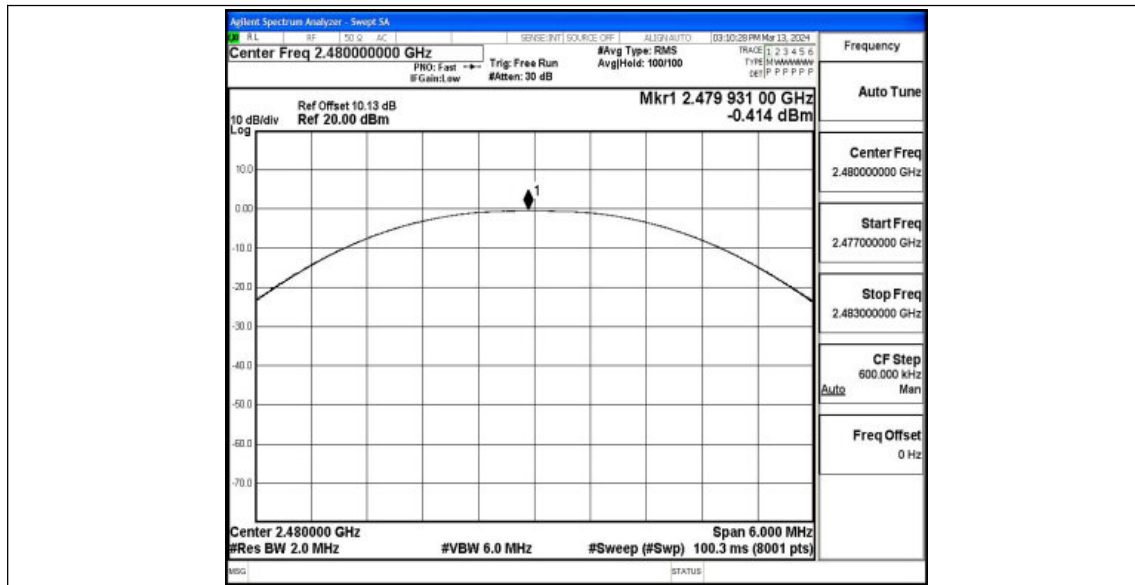


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B.3 Maximum power spectral density

Right Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.27	≤8.00	PASS
		2440	-15.76	≤8.00	PASS
		2480	-16.99	≤8.00	PASS



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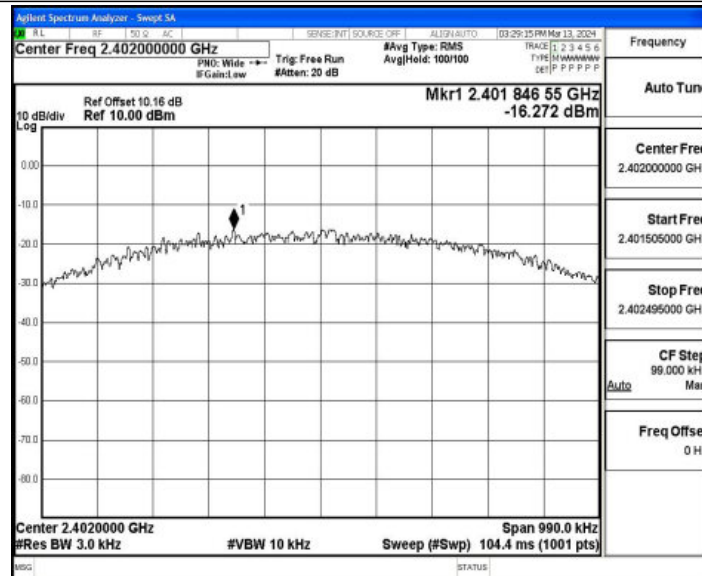
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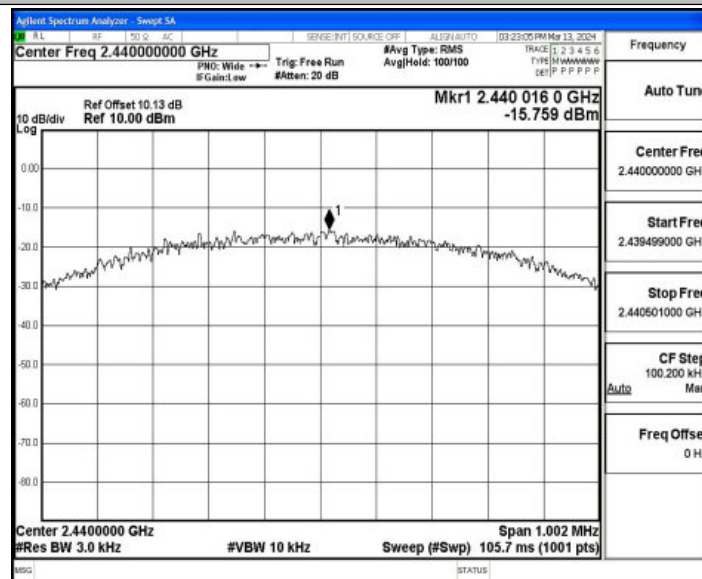


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

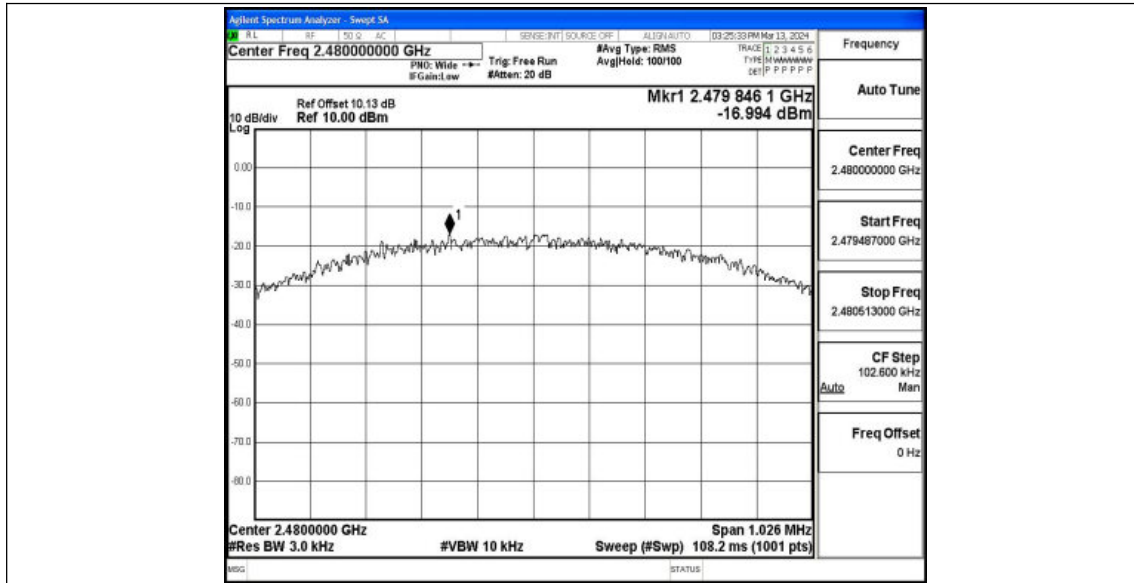


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Left Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.21	≤8.00	PASS
		2440	-15.83	≤8.00	PASS
		2480	-16.86	≤8.00	PASS



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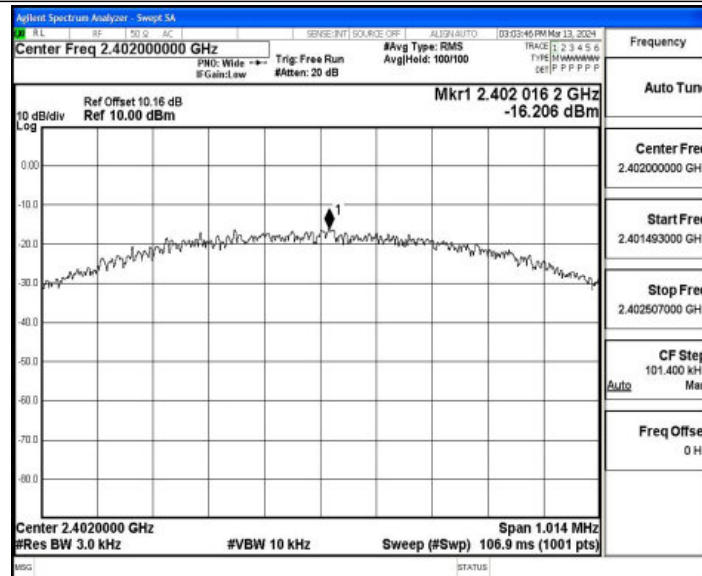
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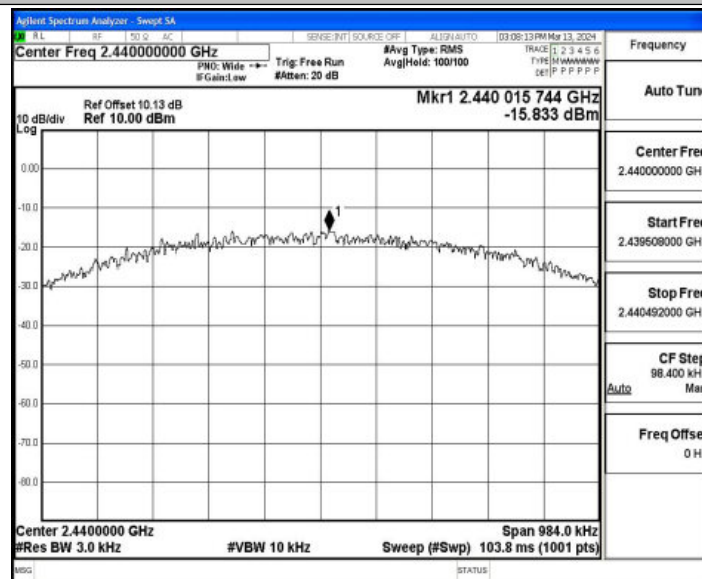


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

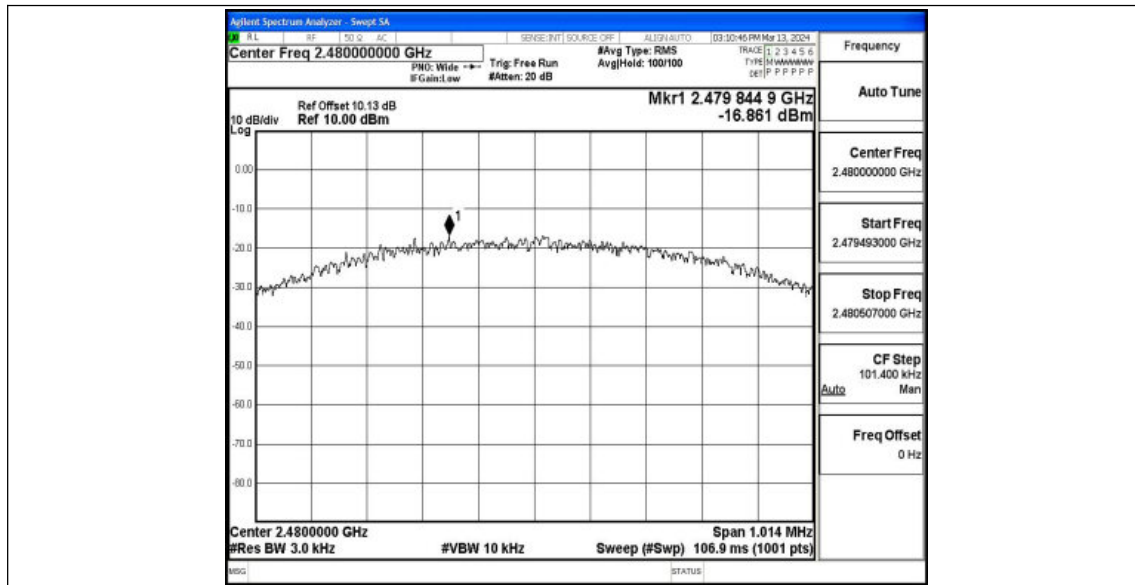


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B.4 Band edge measurements

Right Ear:

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.28	-48.13	≤-20.28	PASS
		High	2480	-0.93	-47.88	≤-20.93	PASS



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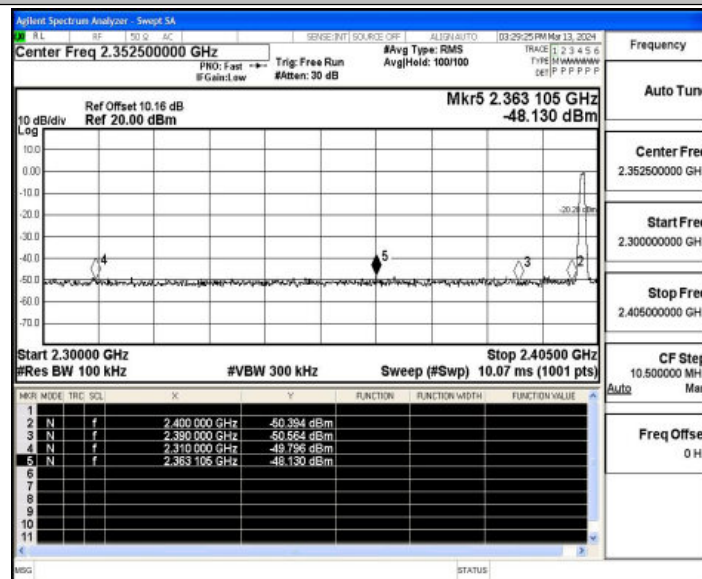
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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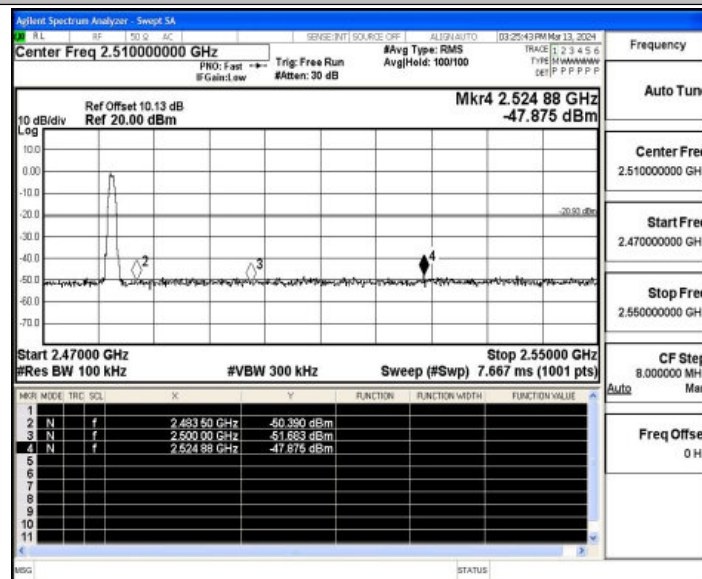


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



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Left Ear:

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.29	-48.57	≤-20.29	PASS
		High	2480	-0.93	-47.41	≤-20.93	PASS



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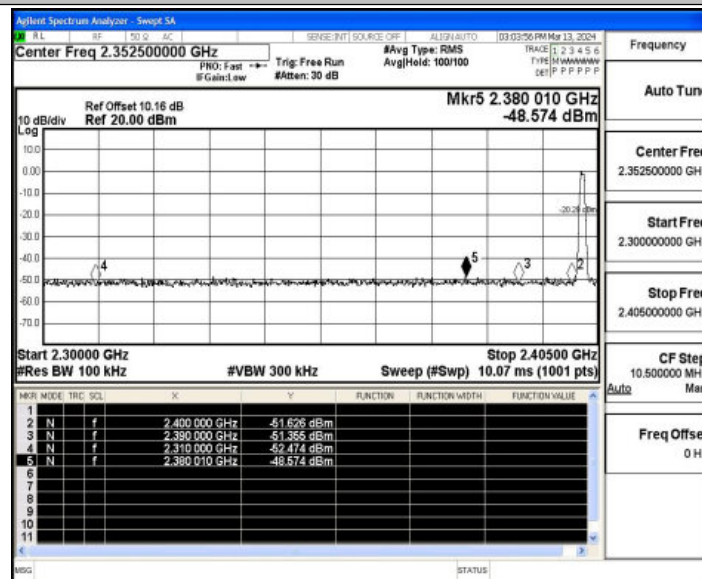
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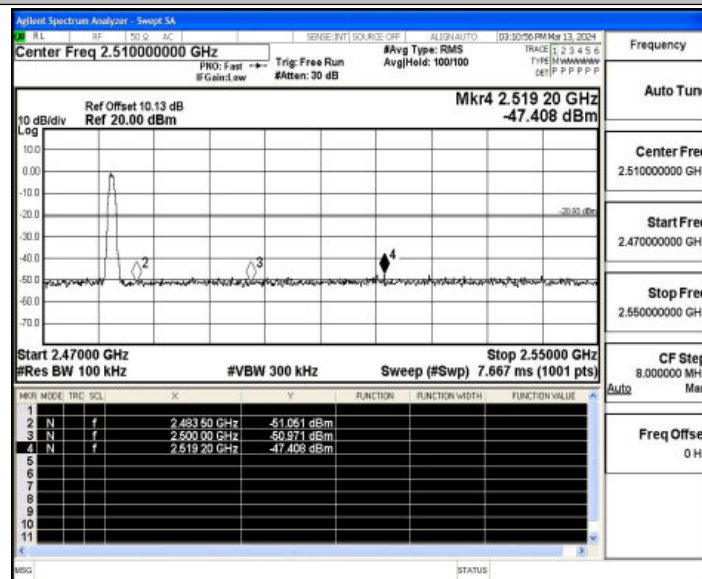


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



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B.5 Conducted Spurious Emission

Right Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-0.28	-60.13	≤-20.28	PASS
			1000~26500	-0.28	-46.98	≤-20.28	PASS
		2440	30~1000	0.24	-59.96	≤-19.76	PASS
			1000~26500	0.24	-46.43	≤-19.76	PASS
		2480	30~1000	-0.93	-59.15	≤-20.93	PASS
			1000~26500	-0.93	-47.29	≤-20.93	PASS



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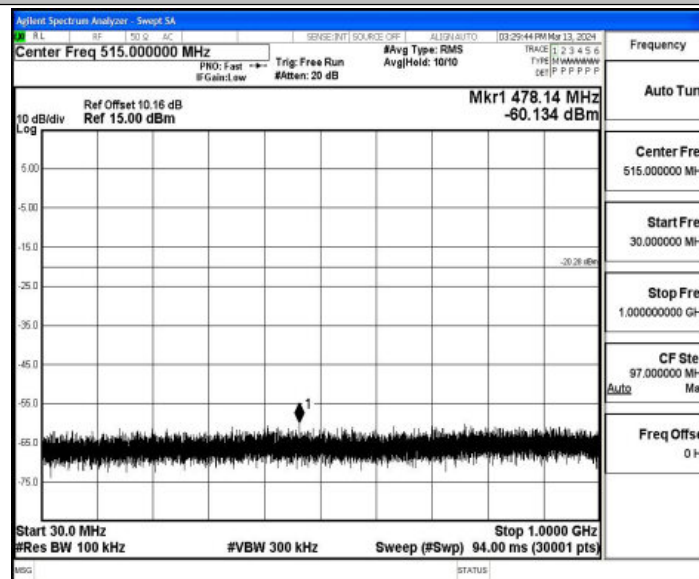
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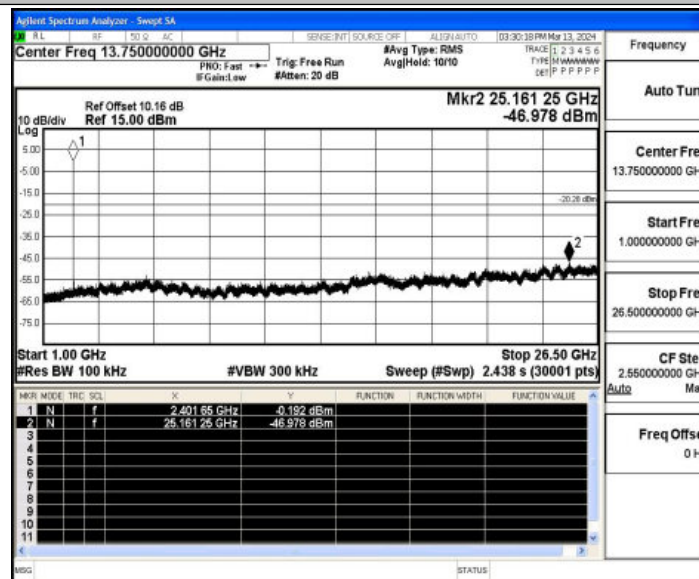


Test Graphs

BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_30~1000

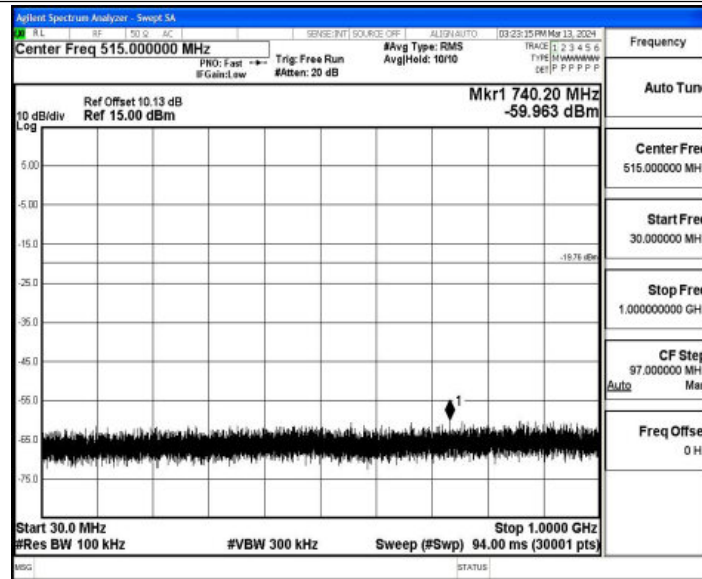


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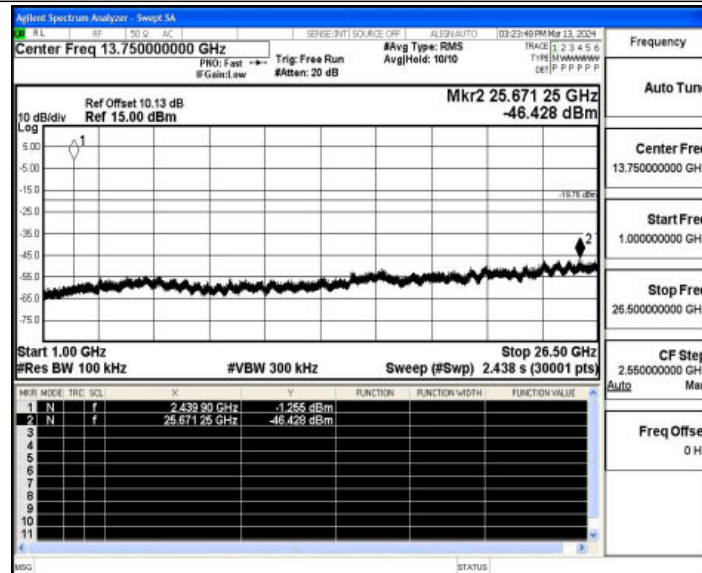
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000

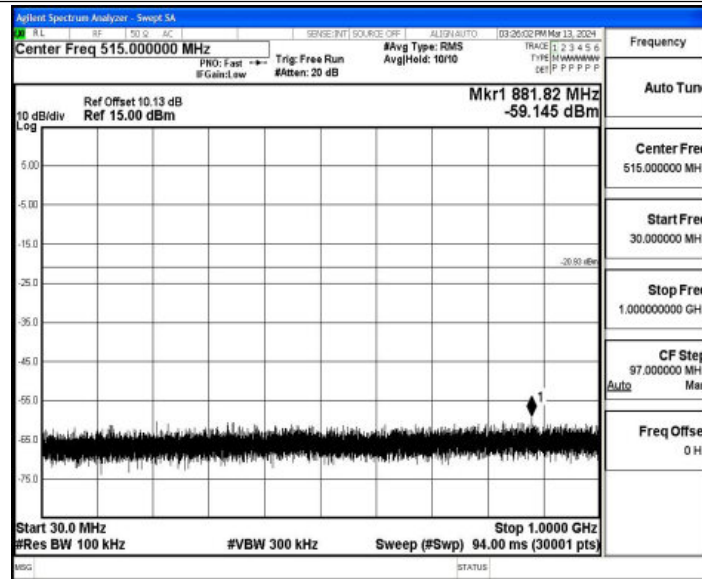


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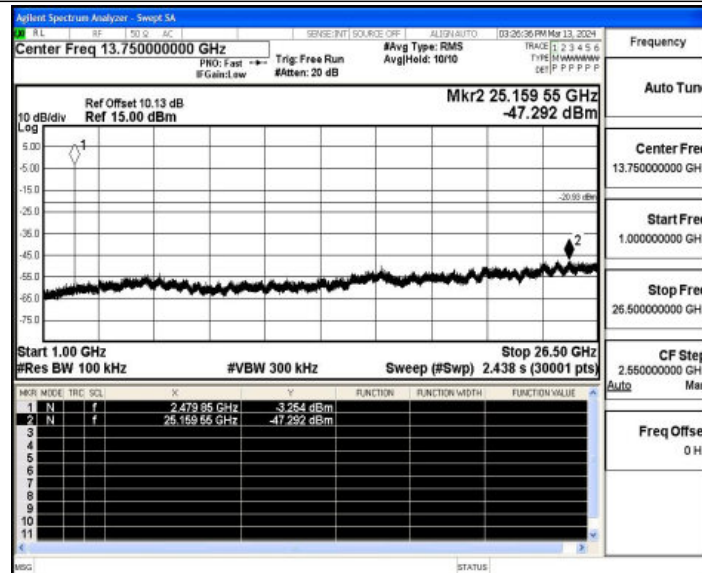
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BLE_1M_Ant1_2480_1000~26500



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Left Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-0.29	-59.9	≤-20.29	PASS
			1000~26500	-0.29	-47.12	≤-20.29	PASS
		2440	30~1000	0.13	-58.81	≤-19.87	PASS
			1000~26500	0.13	-46.87	≤-19.87	PASS
		2480	30~1000	-0.93	-59.01	≤-20.93	PASS
			1000~26500	-0.93	-46.95	≤-20.93	PASS



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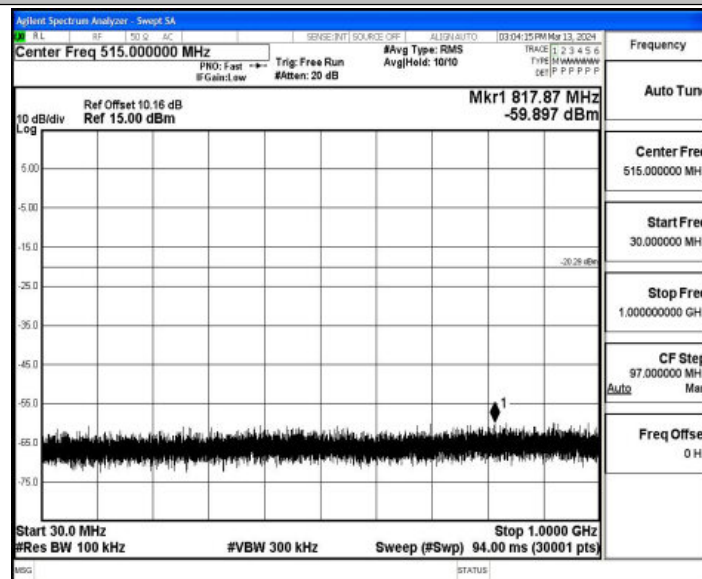
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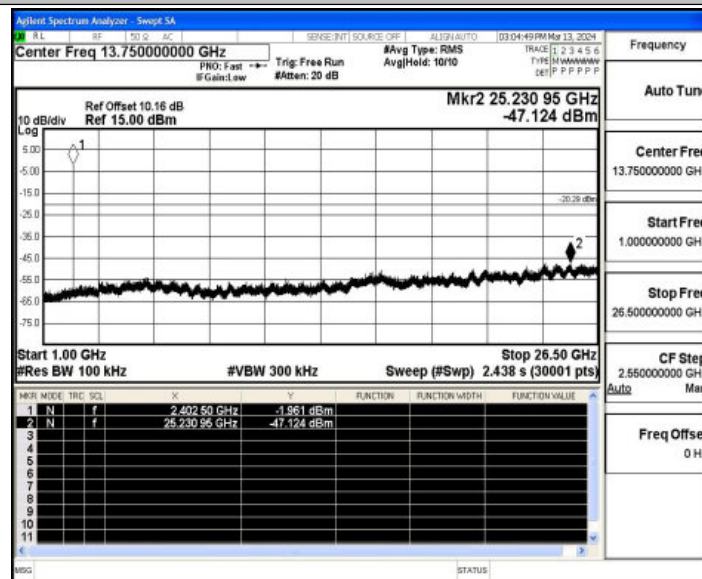


Test Graphs

BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_30~1000

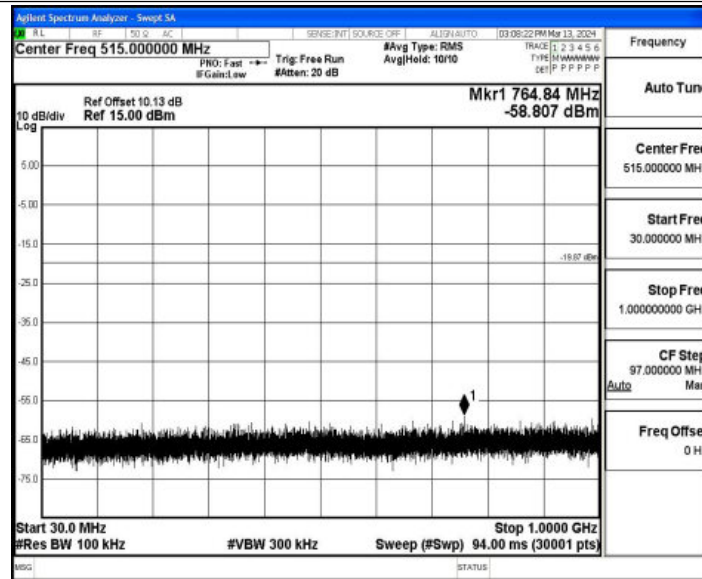


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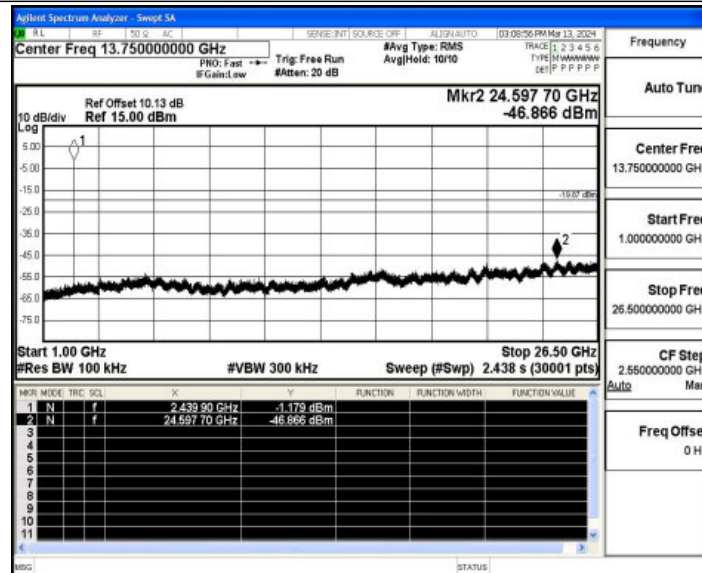
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000

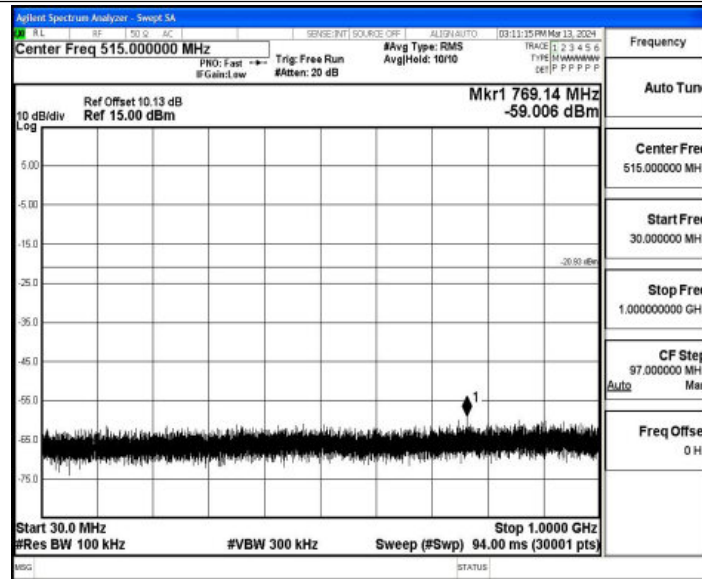


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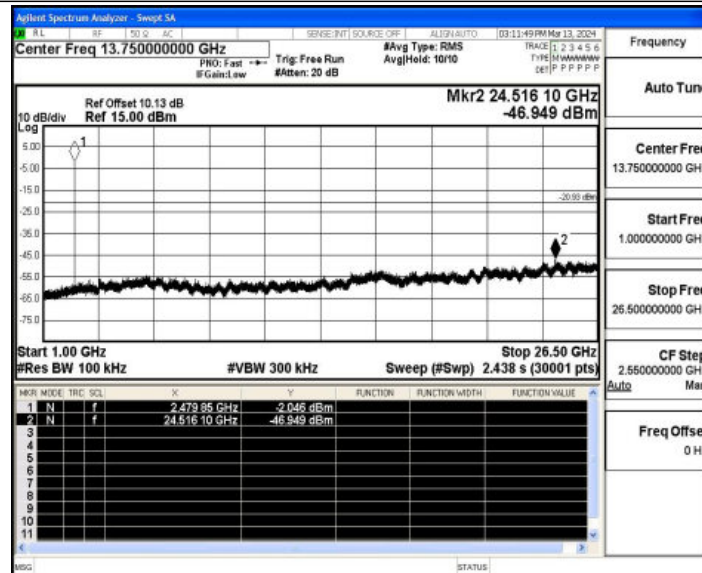
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE_1M_Ant1_2480_1000~26500



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Reference level measurement

Right Ear:

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.76	-0.28
		2440	2439.75	0.24
		2480	2479.75	-0.93



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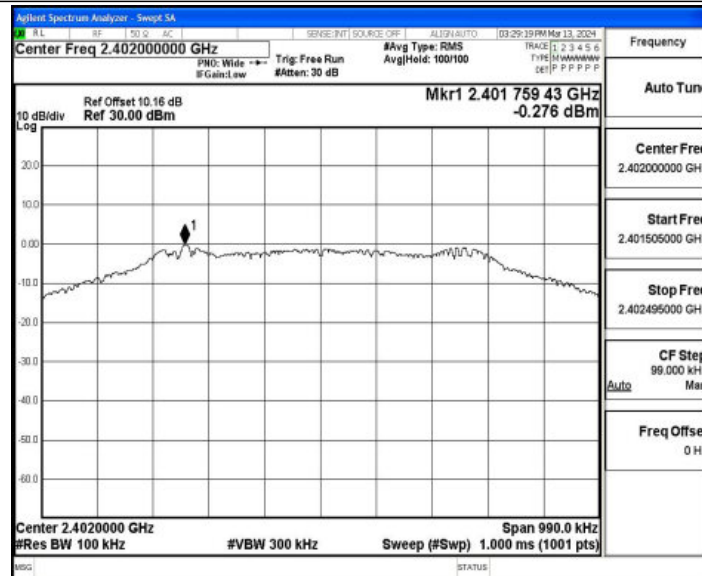
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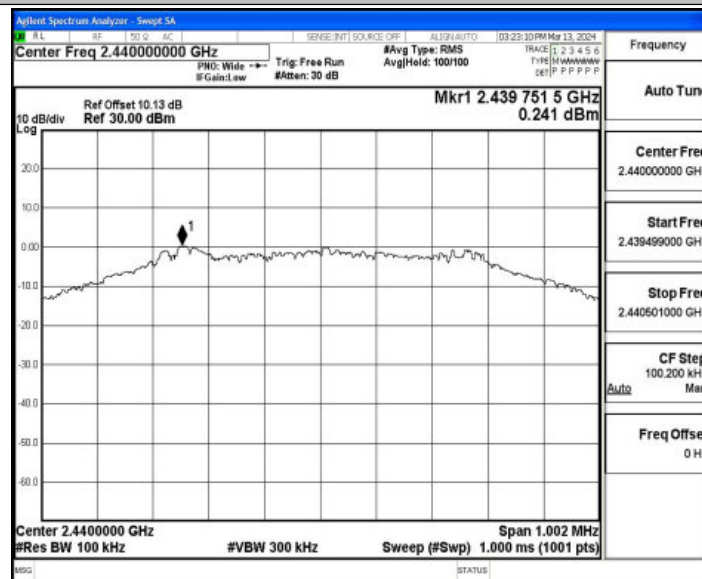


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

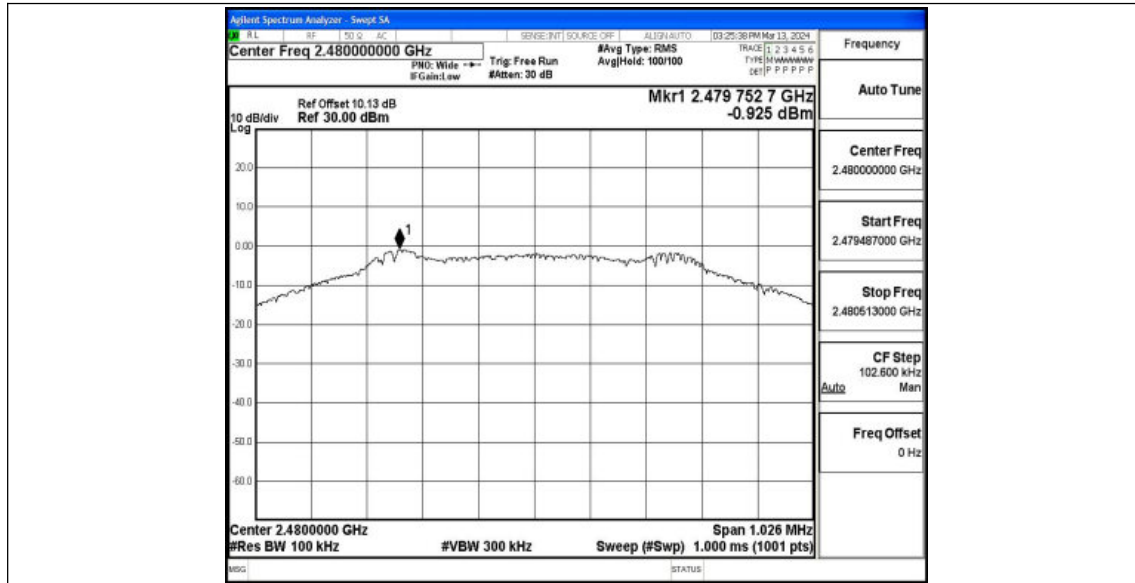


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Left Ear:

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.76	-0.29
		2440	2439.75	0.13
		2480	2479.75	-0.93



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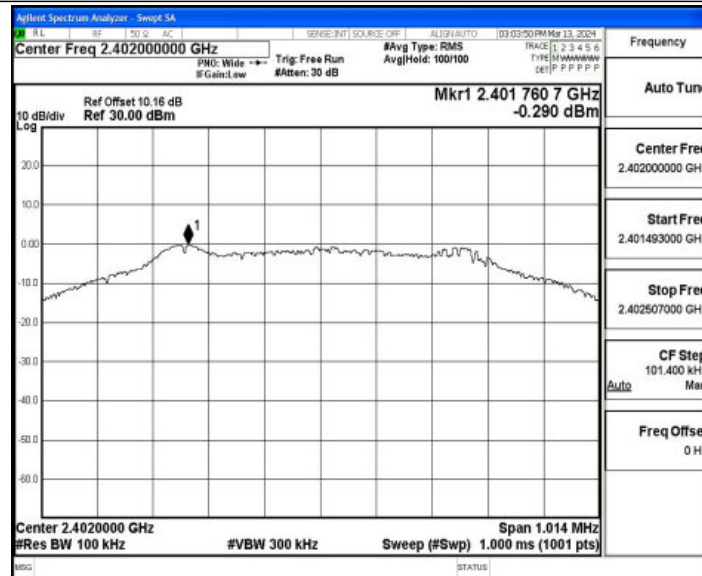
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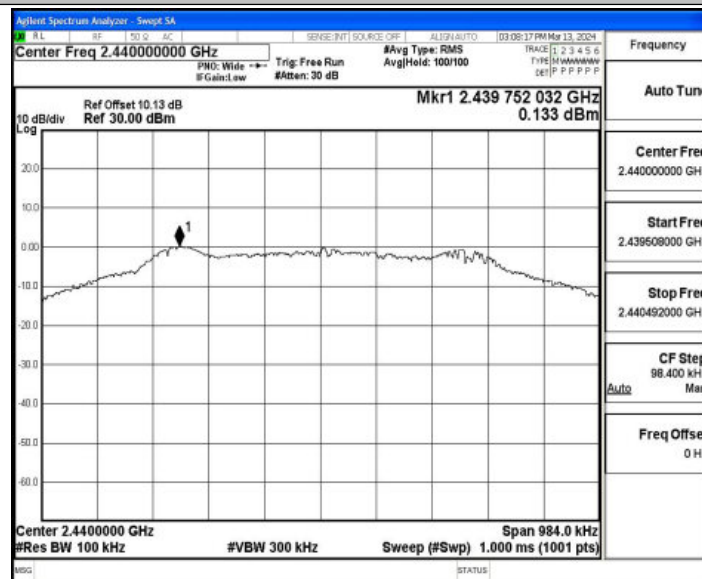


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

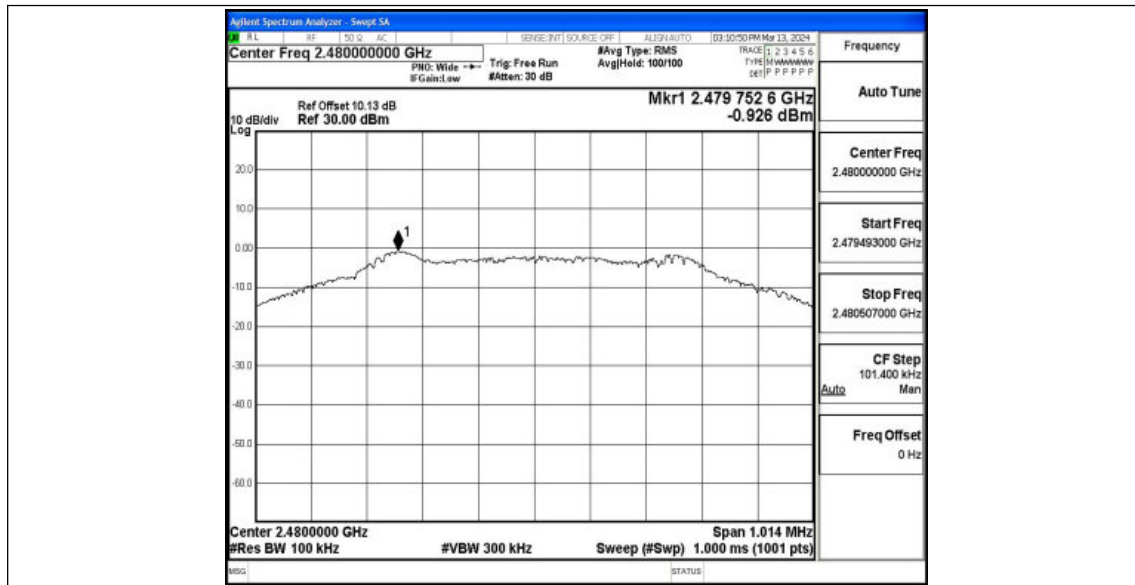


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B.6 Duty Cycle

Right Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	1.64	1.88	87.23	0.59	0.61
		2440	1.64	1.88	87.23	0.59	0.61
		2480	1.64	1.88	87.23	0.59	0.61



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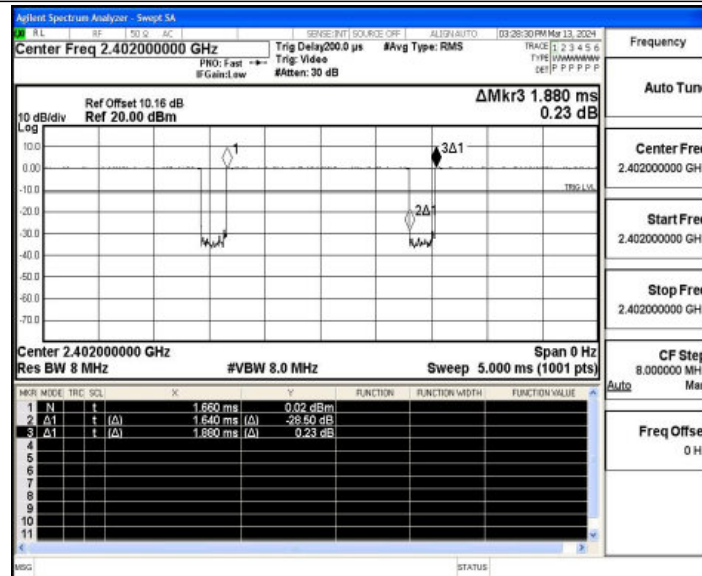
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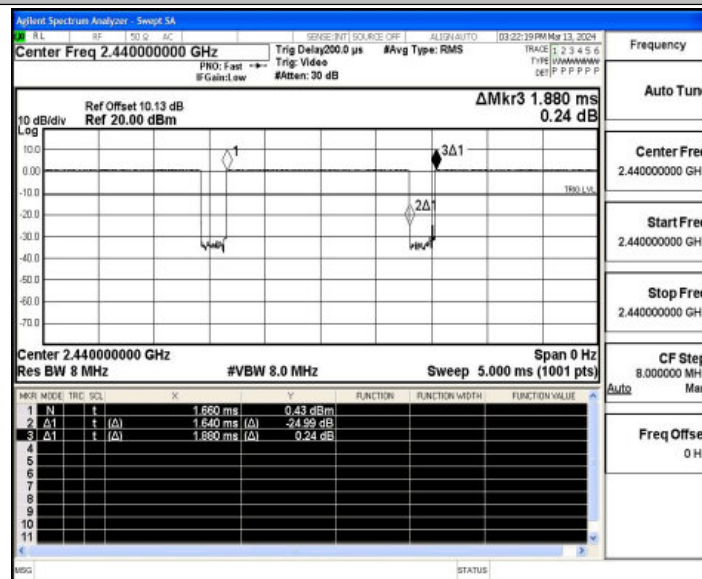


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

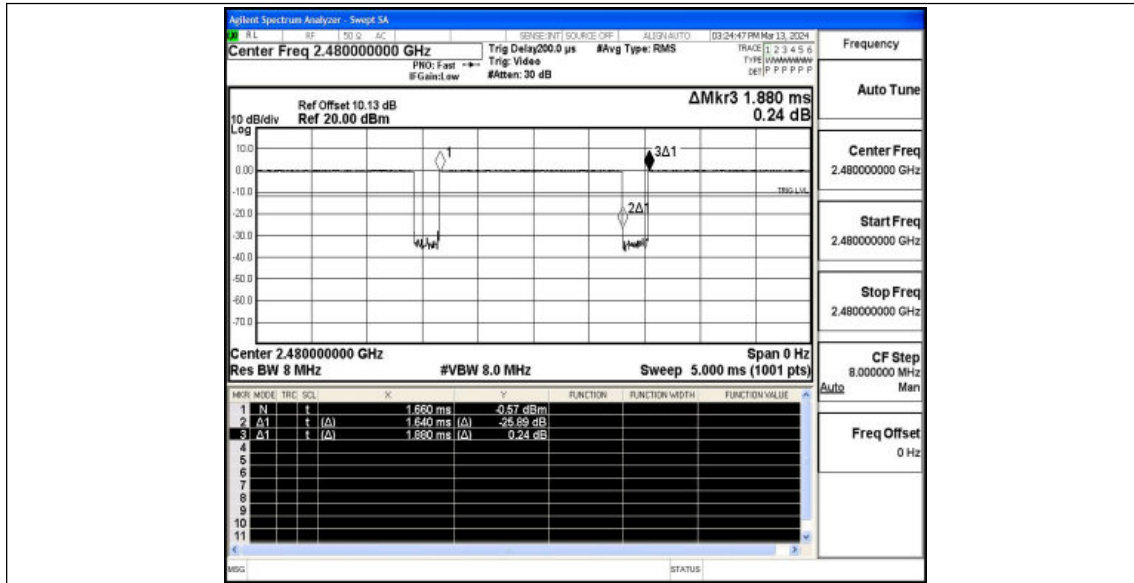


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Left Ear:

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	1.64	1.88	87.23	0.59	0.61
		2440	1.64	1.88	87.23	0.59	0.61
		2480	1.64	1.88	87.23	0.59	0.61



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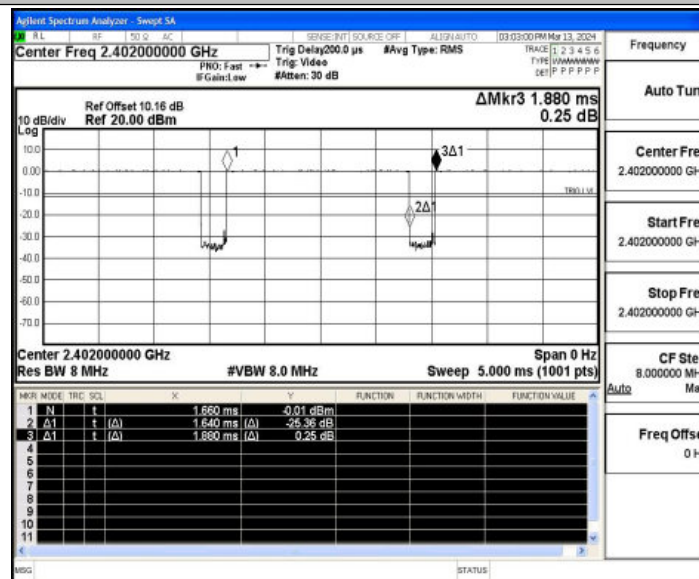
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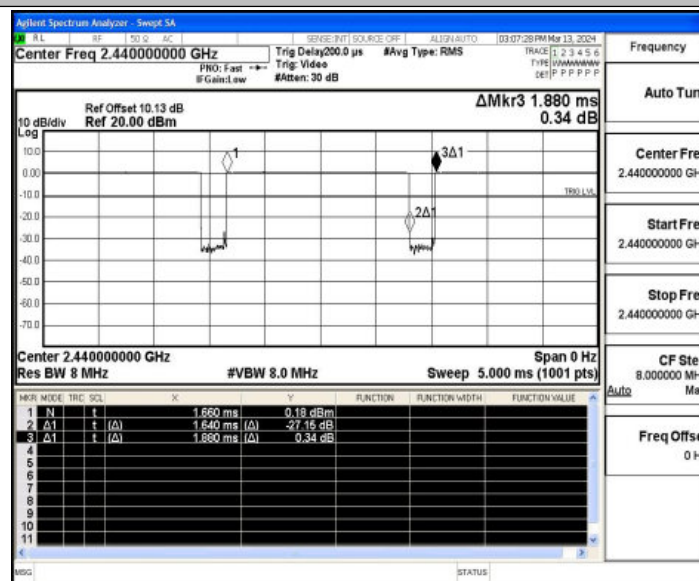


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

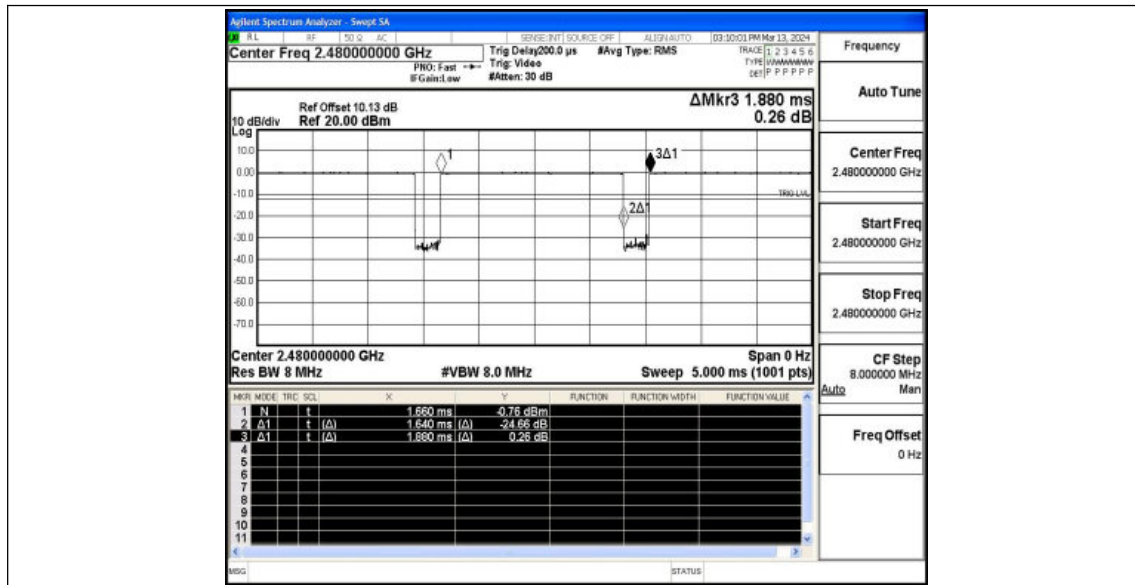


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B.7 Emissions in Restricted Bands

Right Ear:

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.27	≤-41.20	47.93	≤54	PASS
				AV	2364.680	-46.42	≤-41.20	48.78	≤54	PASS
				AV	2390.000	-47.25	≤-41.20	47.95	≤54	PASS
				Peak	2310.000	-39.94	≤-21.20	55.26	≤74	PASS
				Peak	2353.025	-35.62	≤-21.20	59.58	≤74	PASS
				Peak	2390.000	-38.54	≤-21.20	56.66	≤74	PASS
		High	2480	AV	2483.500	-47.02	≤-41.20	48.18	≤54	PASS
				AV	2495.120	-46.03	≤-41.20	49.17	≤54	PASS
				AV	2500.000	-47.04	≤-41.20	48.16	≤54	PASS
				Peak	2483.500	-39.89	≤-21.20	55.31	≤74	PASS
				Peak	2485.280	-36.37	≤-21.20	58.83	≤74	PASS
				Peak	2500.000	-39.15	≤-21.20	56.05	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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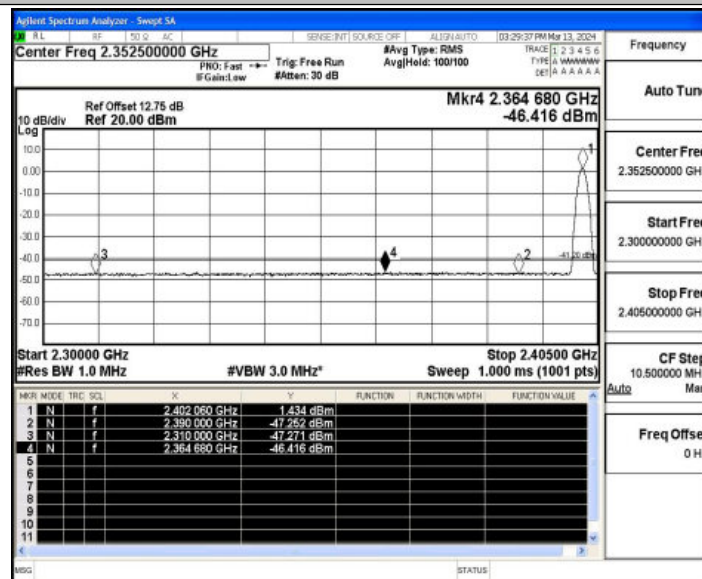
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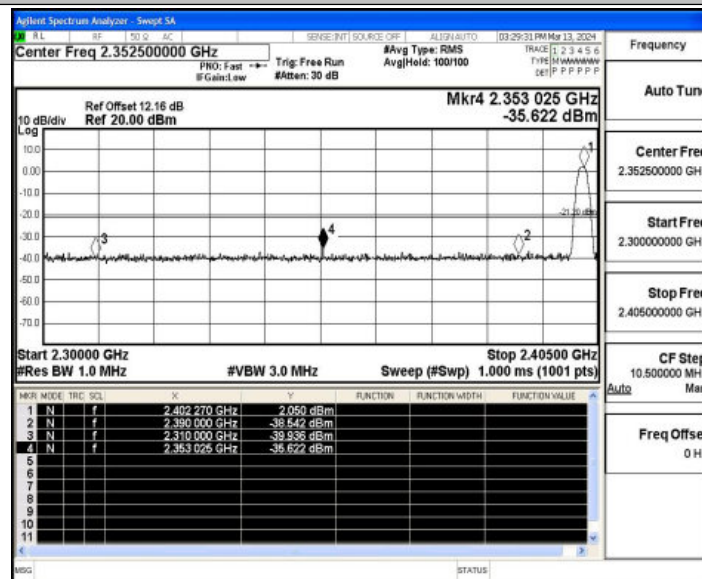


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

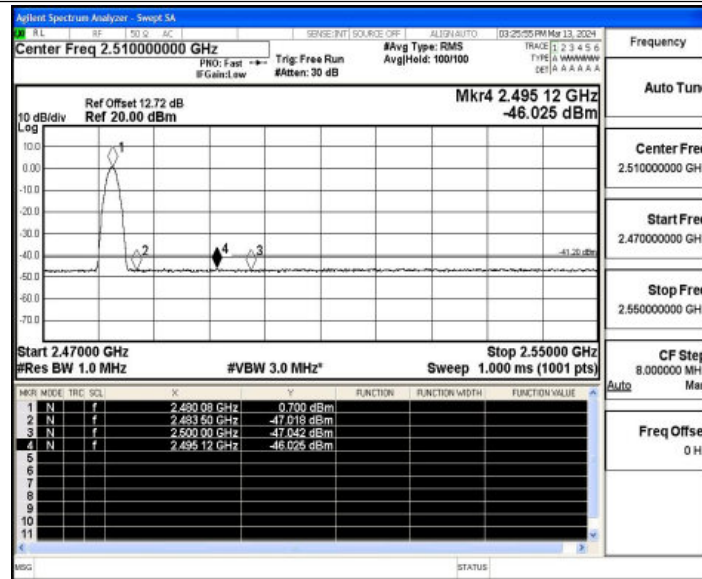


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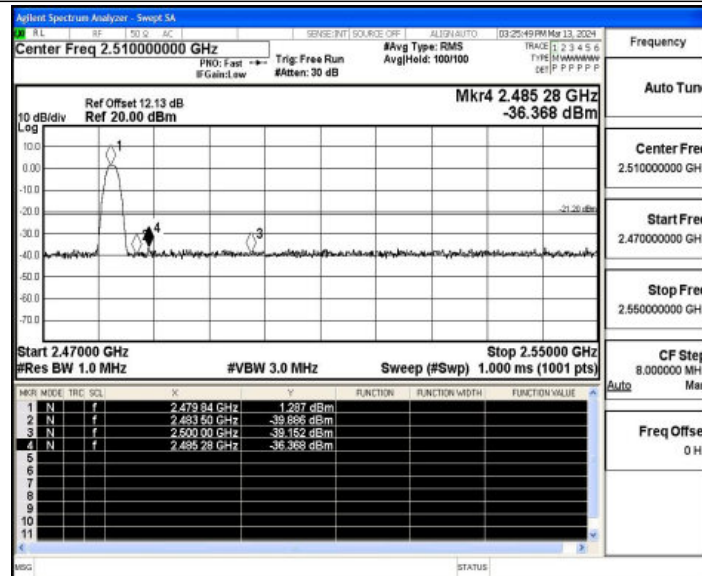
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE_1M_Ant1_High_2480_Peak



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Left Ear:

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.31	≤-41.20	47.89	≤54	PASS
				AV	2376.755	-46.47	≤-41.20	48.73	≤54	PASS
				AV	2390.000	-47.07	≤-41.20	48.13	≤54	PASS
				Peak	2310.000	-39.3	≤-21.20	55.90	≤74	PASS
				Peak	2382.950	-36.6	≤-21.20	58.60	≤74	PASS
				Peak	2390.000	-39.5	≤-21.20	55.70	≤74	PASS
		High	2480	AV	2483.500	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2491.200	-46.36	≤-41.20	48.84	≤54	PASS
				AV	2500.000	-46.33	≤-41.20	48.87	≤54	PASS
				Peak	2483.500	-39.29	≤-21.20	55.91	≤74	PASS
				Peak	2494.240	-35.82	≤-21.20	59.38	≤74	PASS
				Peak	2500.000	-38.55	≤-21.20	56.65	≤74	PASS

Note:

- The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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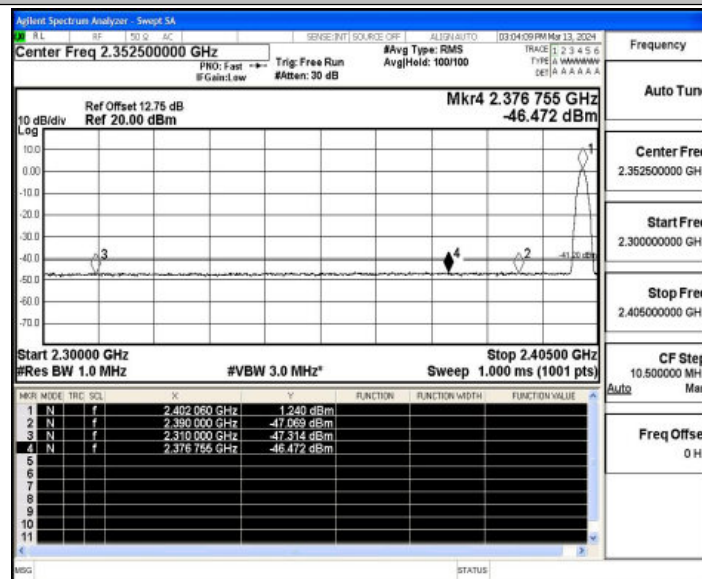
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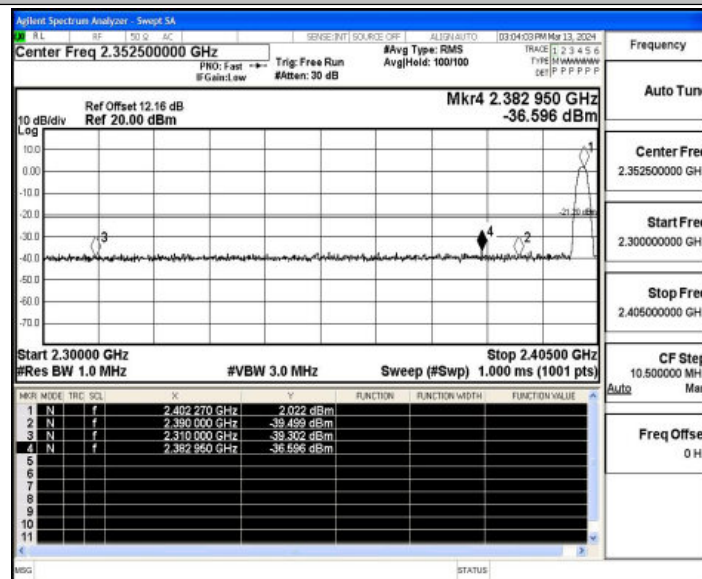


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

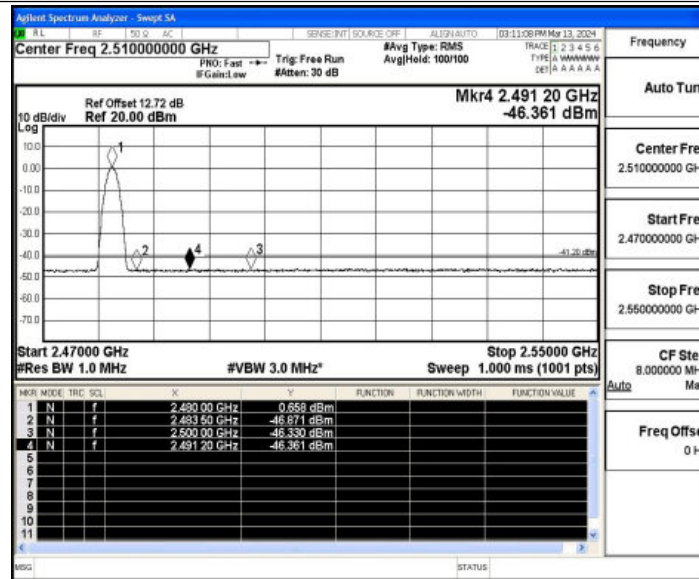


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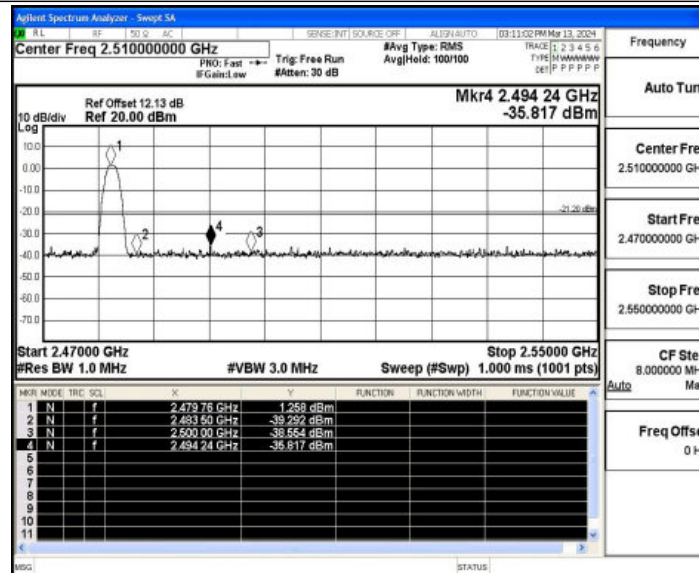
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BLE_1M_Ant1_High_2480_Peak



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