

FCC Appendix RF Test Data for BLE

FCC ID : 2BSB9-DKCY1

Company : D.CO INTERNATIONAL EQUIPMENT
MANUFACTURING (HENAN) CO.,LTD.

EUT : Intelligent liquid dispenser

Model Number : DK-CY1

Report No. : CTA25101400201

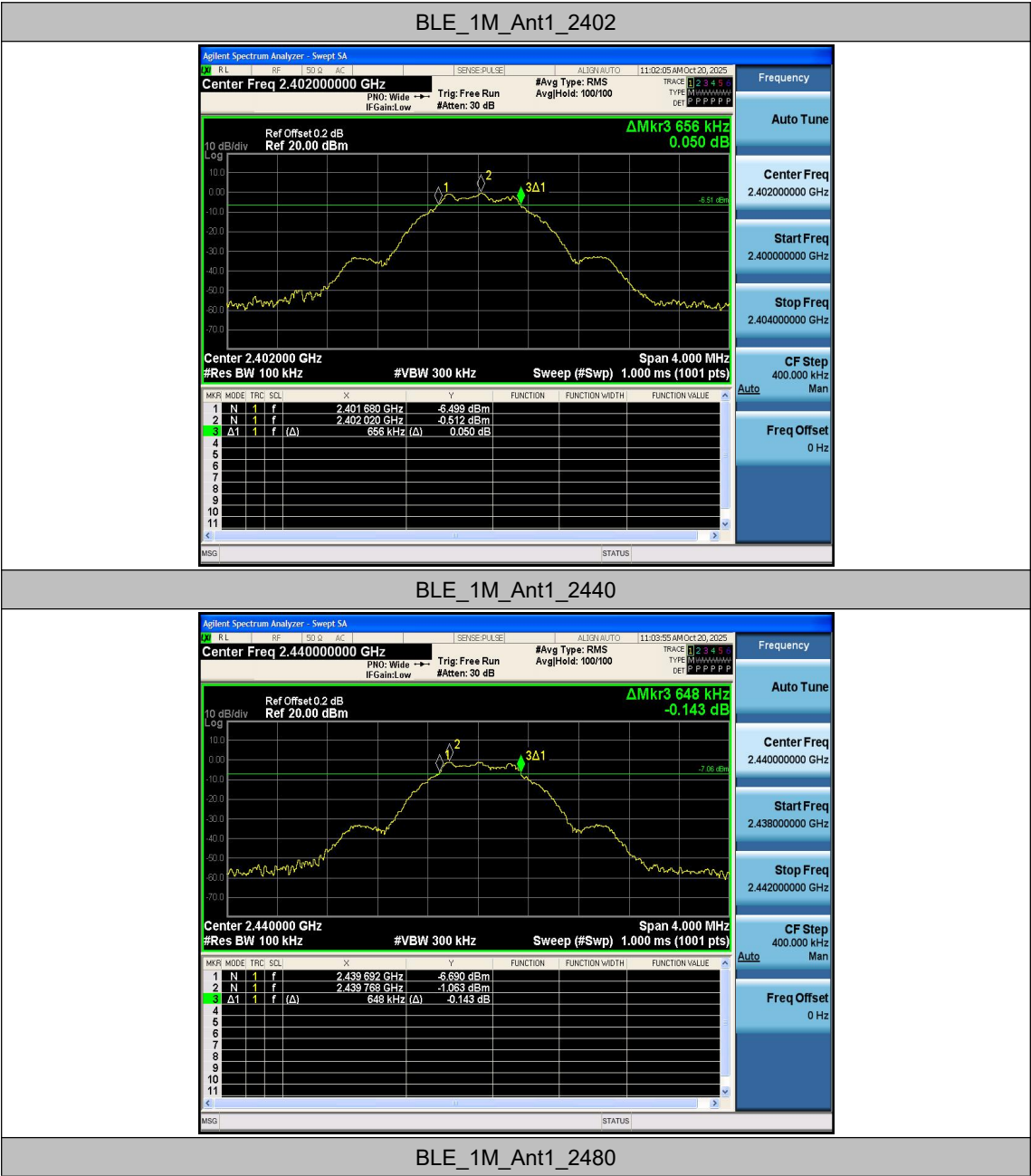
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.680	2402.336	0.5	PASS
		2440	0.648	2439.692	2440.340	0.5	PASS
		2480	0.648	2479.688	2480.336	0.5	PASS

Test Graphs





Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0028	2401.5174	2402.5202	---	---
		2440	1.0074	2439.5161	2440.5235	---	---
		2480	1.0039	2479.5168	2480.5207	---	---

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.38	≤30	PASS
		2440	-0.59	≤30	PASS
		2480	-0.51	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

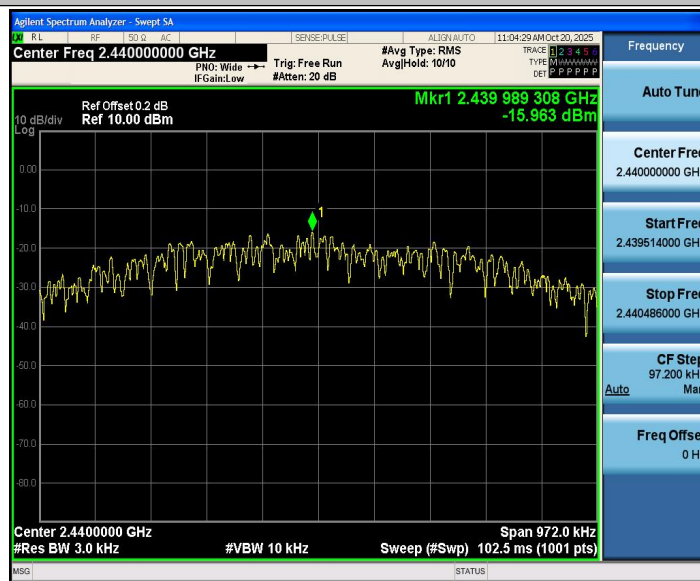
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.11	≤8.00	PASS
		2440	-15.96	≤8.00	PASS
		2480	-15.88	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



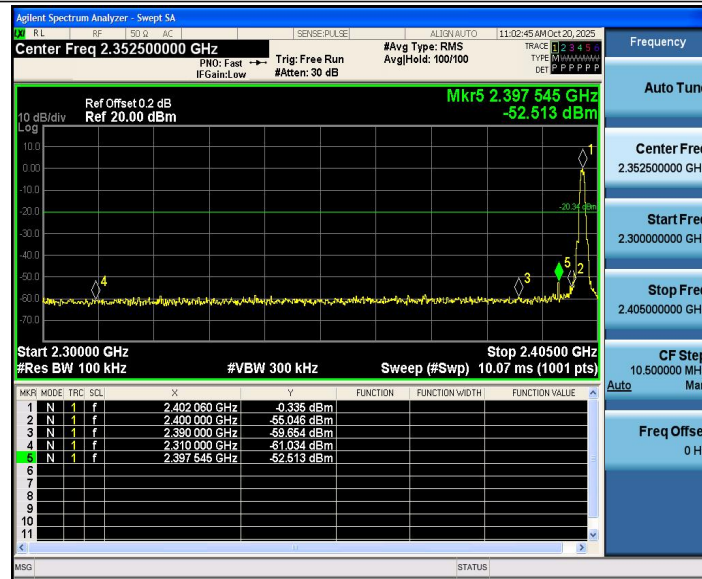
Appendix E: Band edge measurements

Test Result

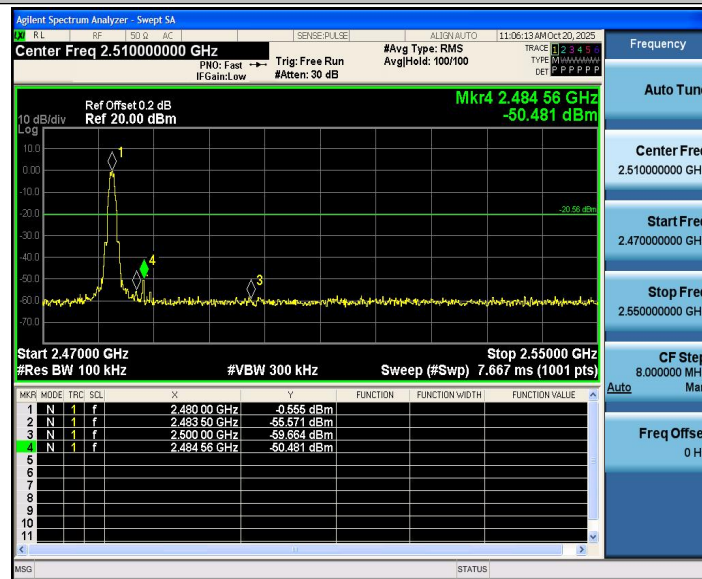
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.34	-52.51	≤ -20.34	PASS
		High	2480	-0.56	-50.48	≤ -20.56	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

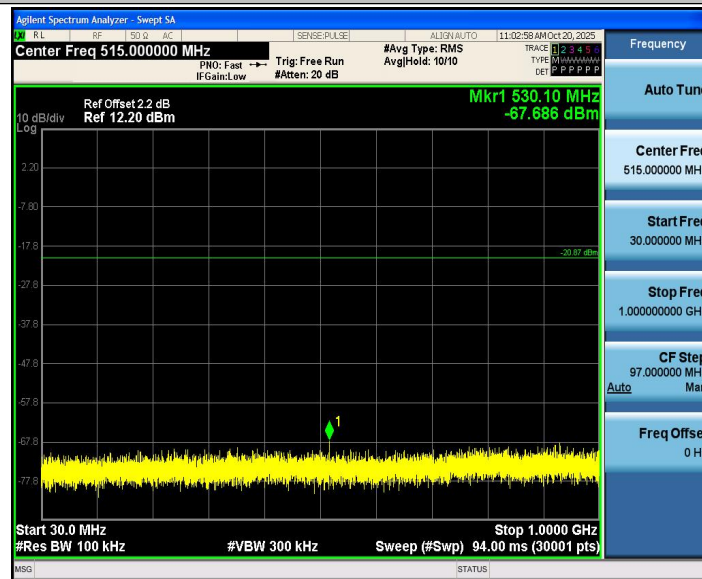
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-67.69	≤-20.87	PASS
			1000~26500	-0.87	-41.67	≤-20.87	PASS
		2440	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-67.63	≤-22.02	PASS
			1000~26500	-2.02	-42.75	≤-22.02	PASS
		2480	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-67.5	≤-22.09	PASS
			1000~26500	-2.09	-43.99	≤-22.09	PASS

Test Graphs

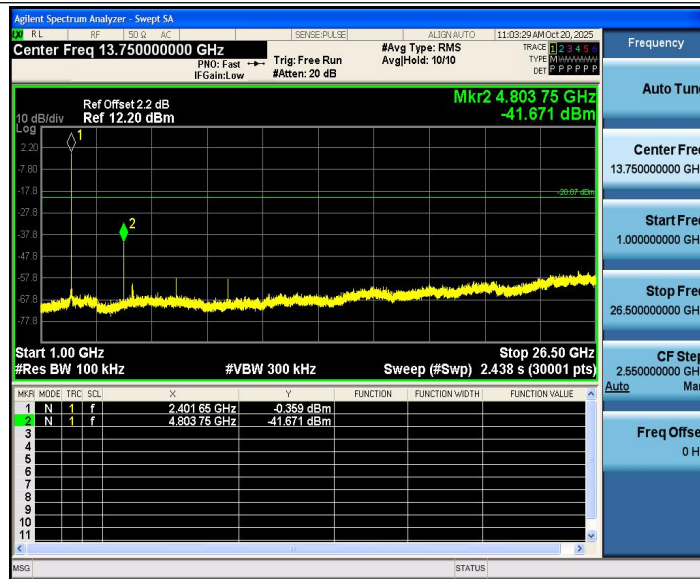
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



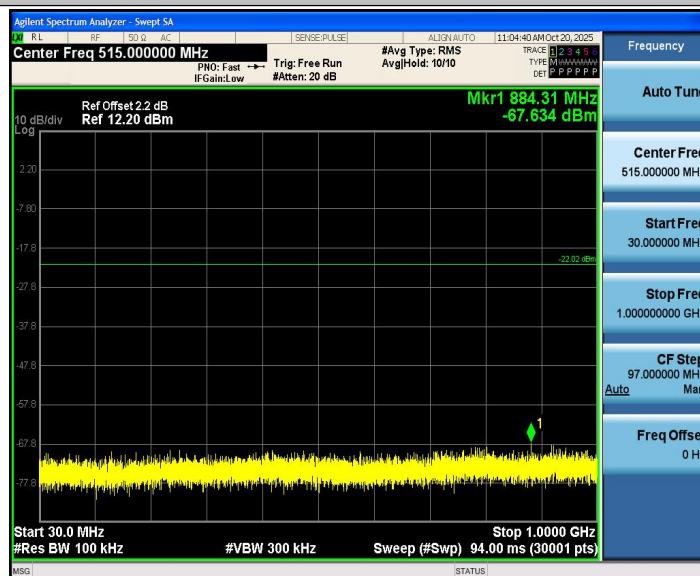
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



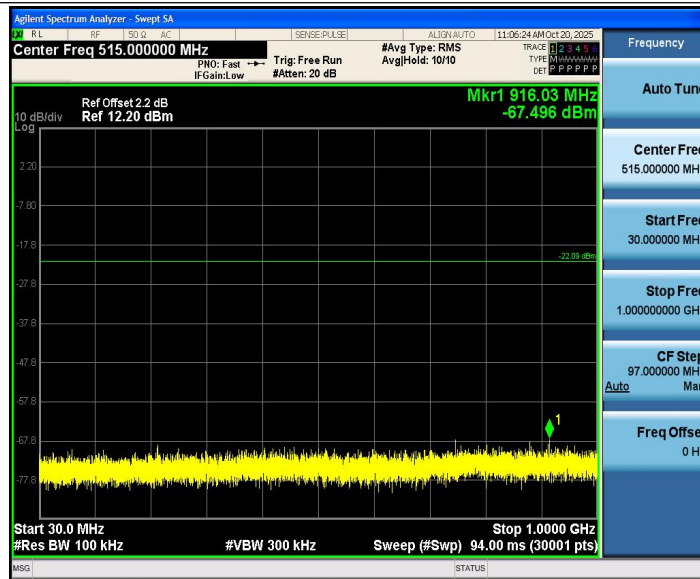
BLE_1M_Ant1_2440_1000~26500



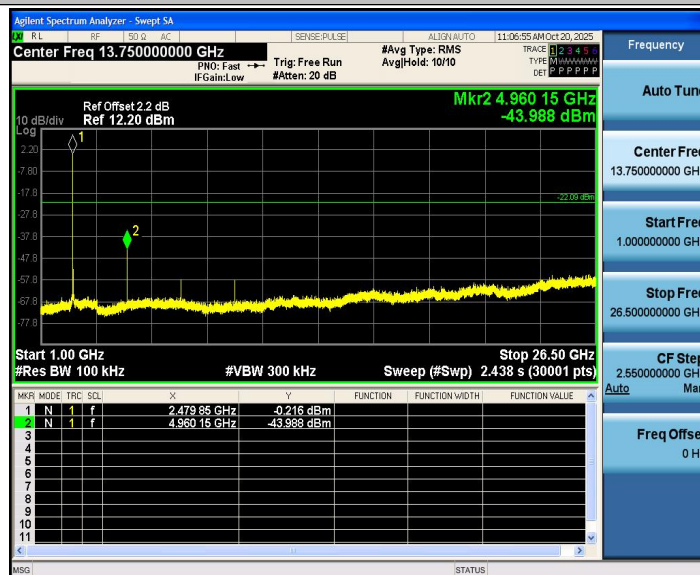
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



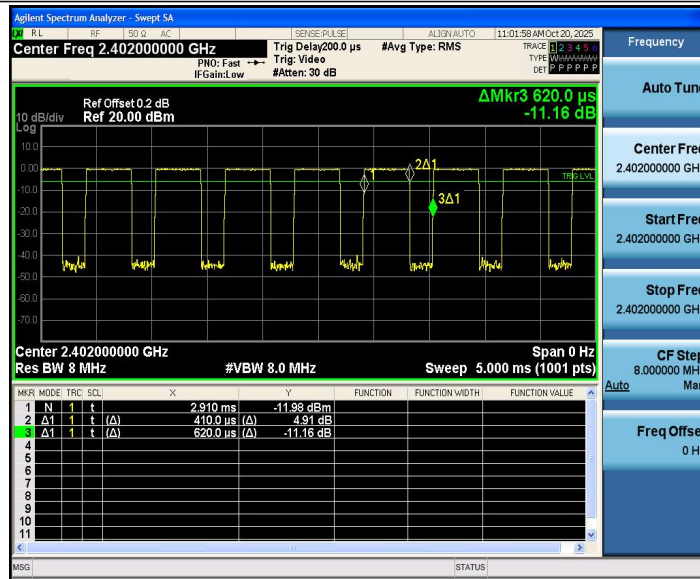
Appendix G: Duty Cycle

Test Result

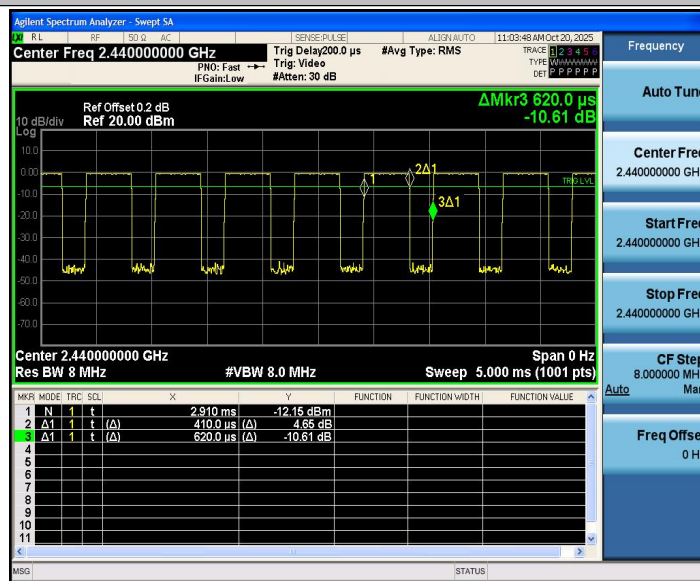
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

