



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MOTORCYCLE SPEAKER

Test Model: SB26BTXRGB

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.457	2402.489	---	---
		2441	1.020	2440.466	2441.486	---	---
		2480	1.014	2479.460	2480.474	---	---
2DH5	Ant1	2402	1.287	2401.349	2402.636	---	---
		2441	1.281	2440.355	2441.636	---	---
		2480	1.311	2479.331	2480.642	---	---



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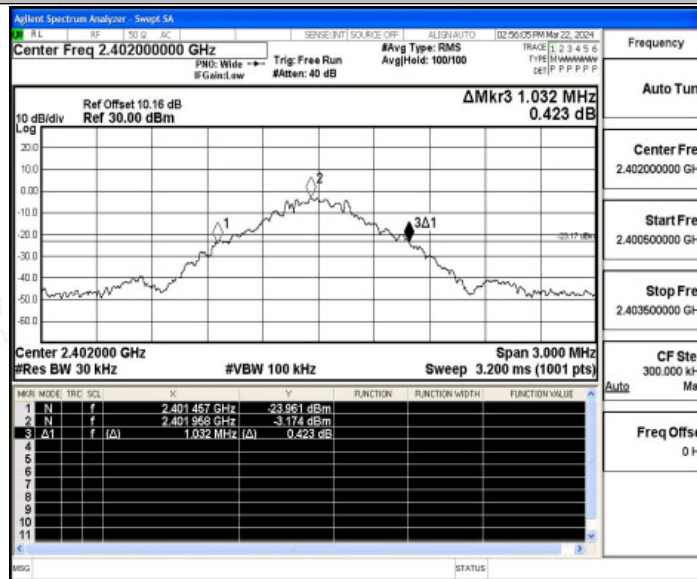
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Scan code to check authenticity

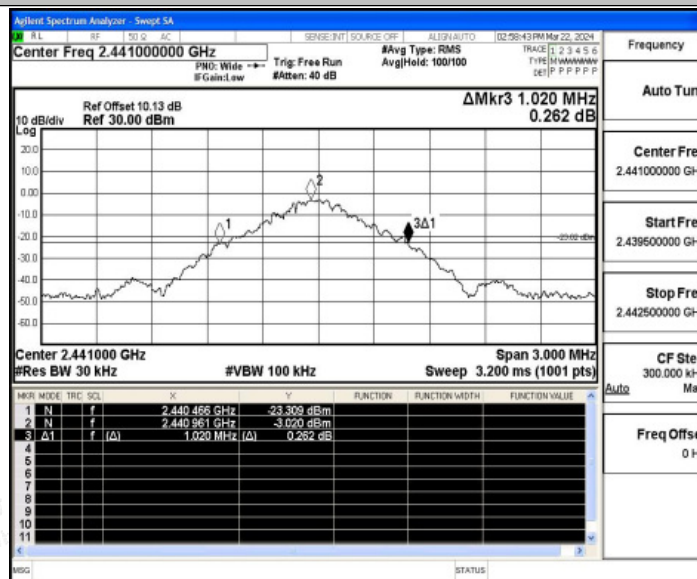


Test Graphs

DH5_Ant1_2402

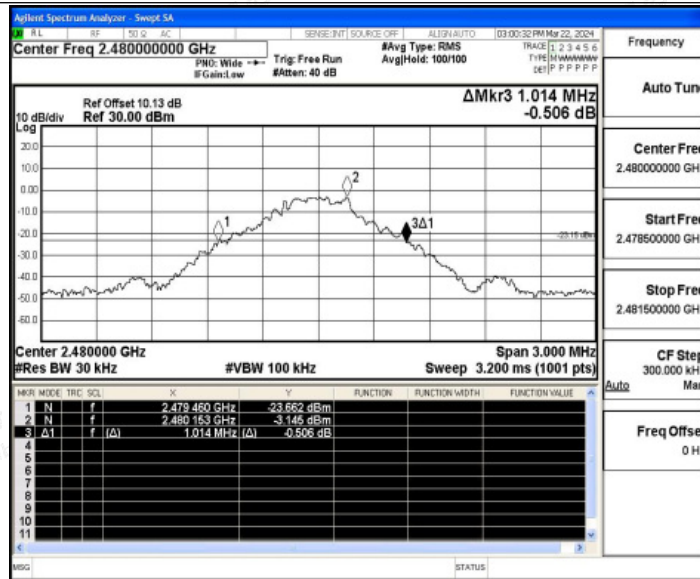


DH5_Ant1_2441

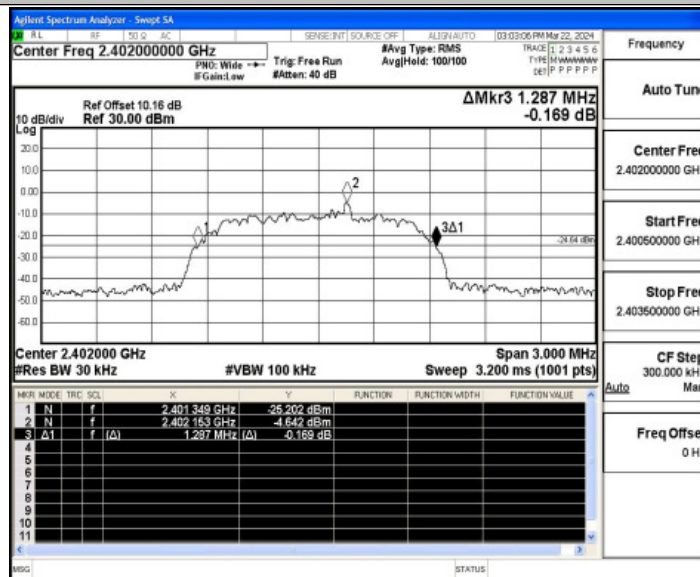


DH5_Ant1_2480



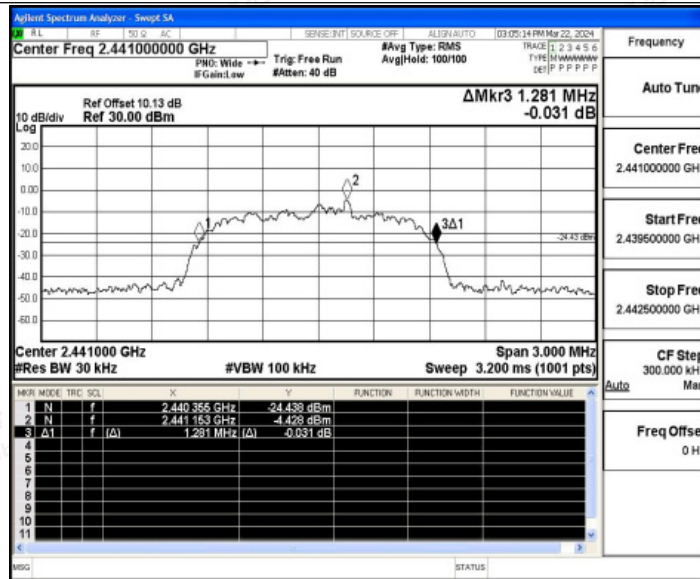


2DH5_Ant1_2402

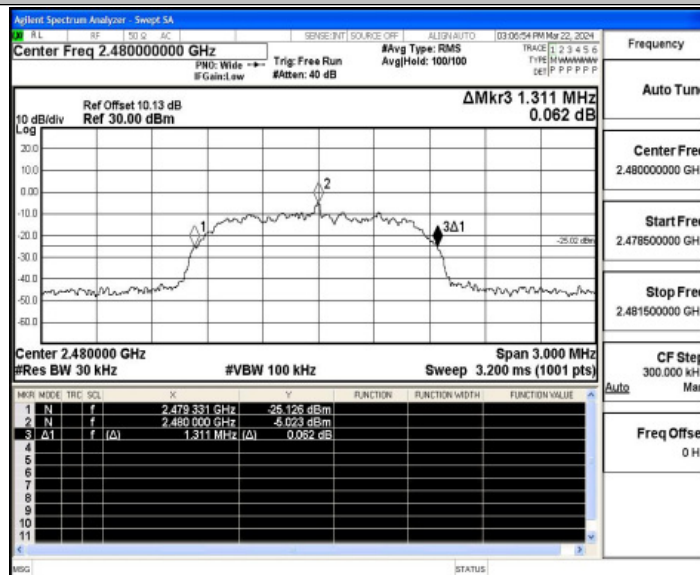


2DH5_Ant1_2441





2DH5_Ant1_2480





A.2 Maximum conducted output power

Test Result Peak

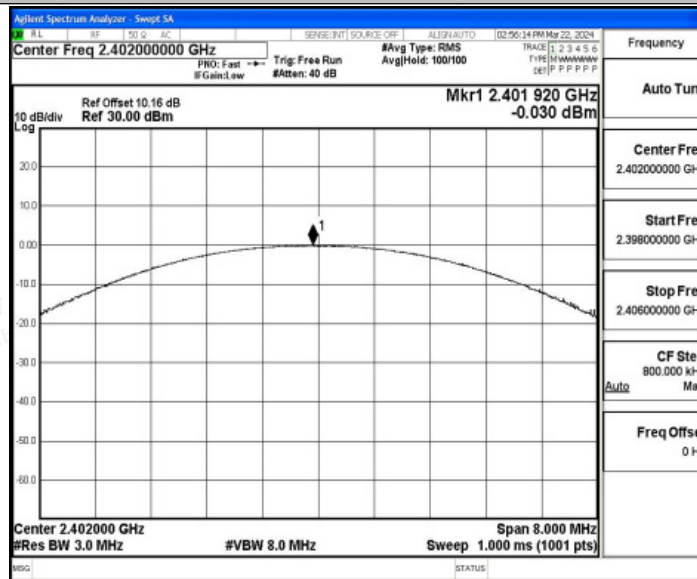
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.03	≤ 20.97	PASS
		2441	0.14	≤ 20.97	PASS
		2480	0.05	≤ 20.97	PASS
2DH5	Ant1	2402	-0.46	≤ 20.97	PASS
		2441	-0.29	≤ 20.97	PASS
		2480	-0.23	≤ 20.97	PASS



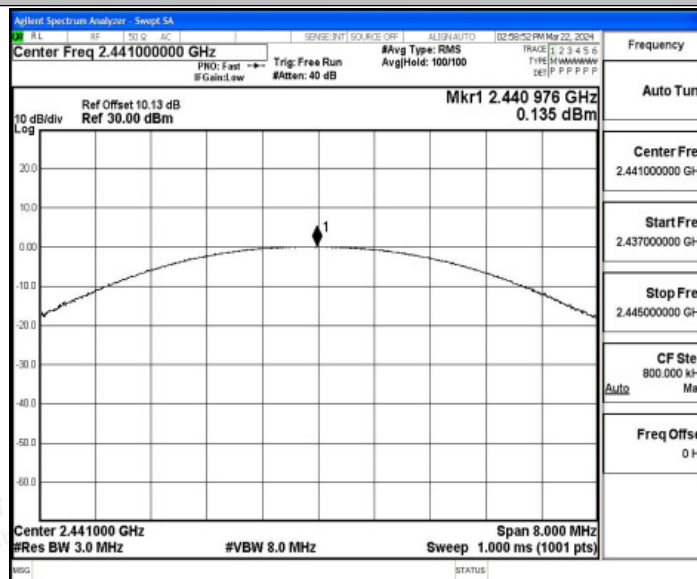


Test Graphs

DH5_Ant1_2402

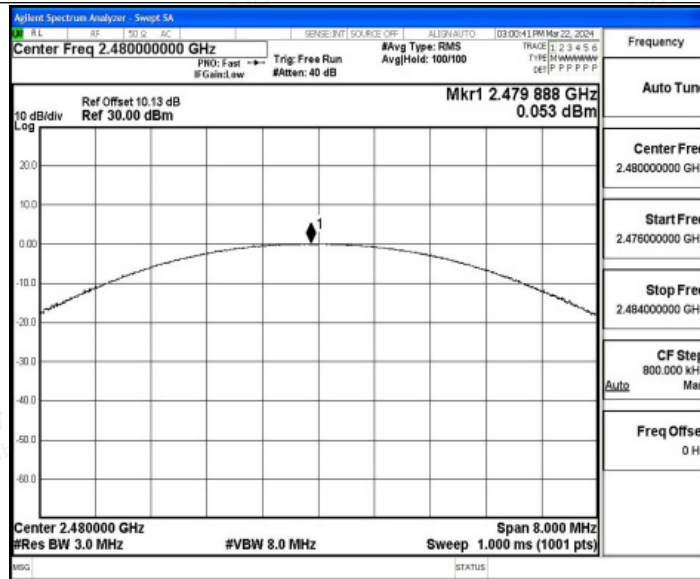


DH5_Ant1_2441

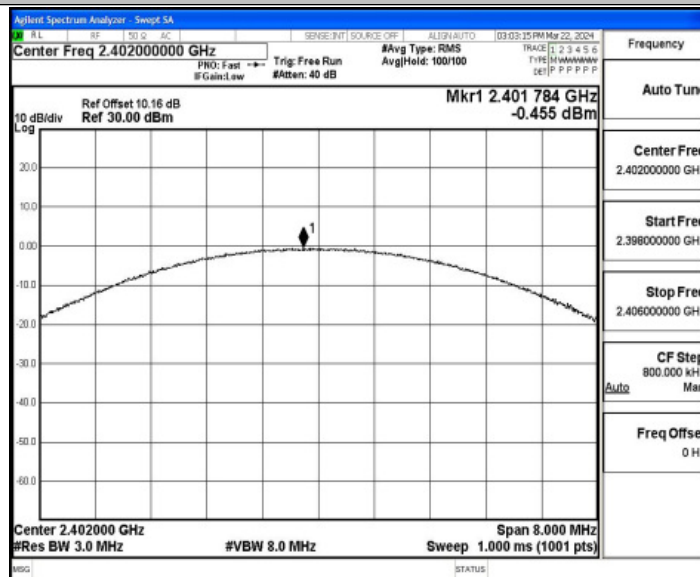


DH5_Ant1_2480



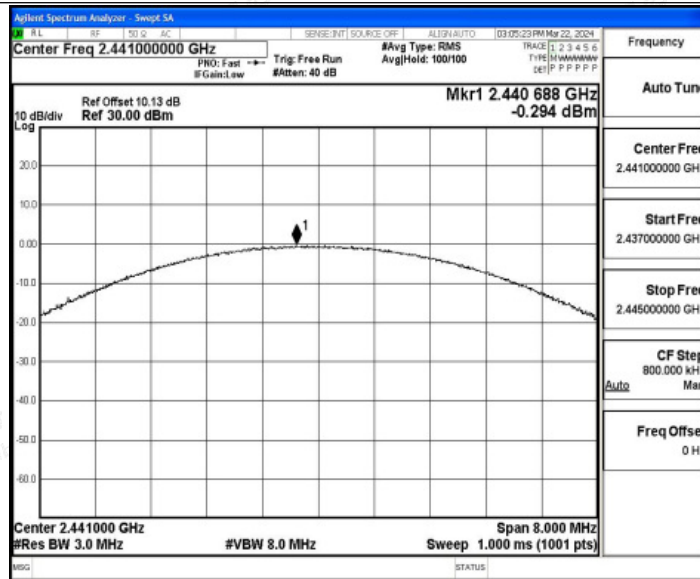


2DH5_Ant1_2402

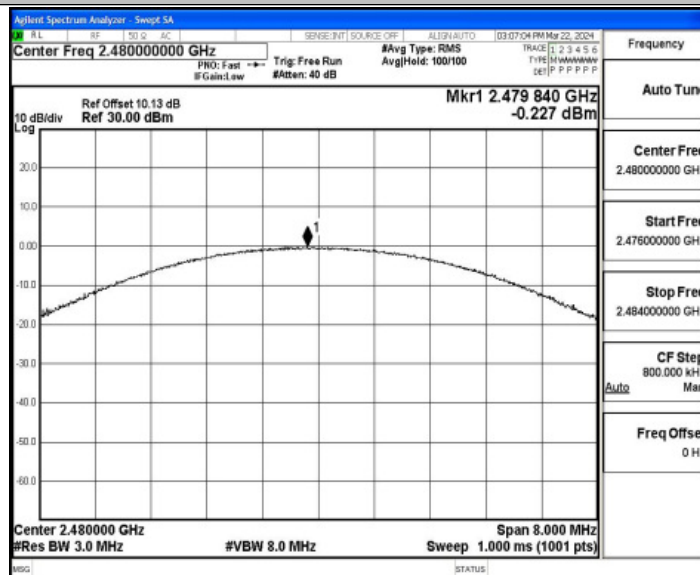


2DH5_Ant1_2441





2DH5_Ant1_2480





A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.118	≥ 1.032	PASS
2DH5	Ant1	Hop	0.928	≥ 0.874	PASS



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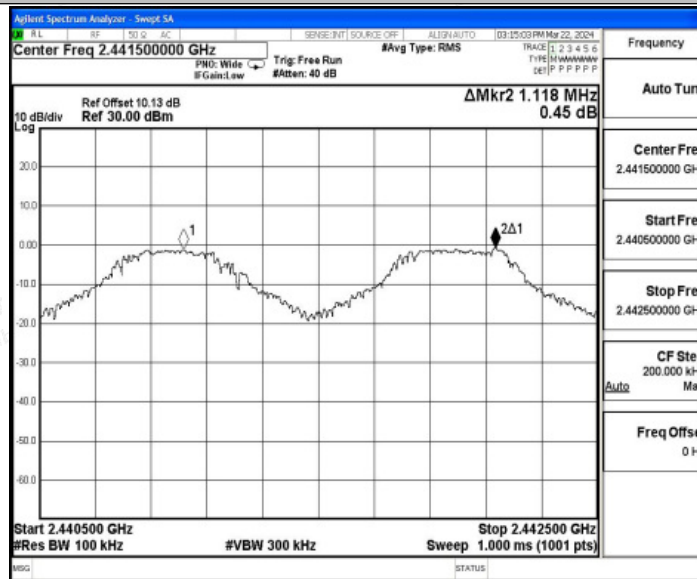
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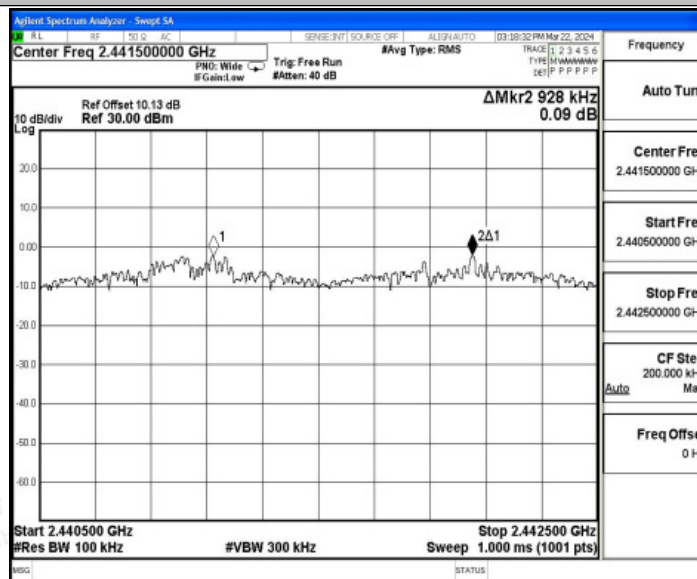


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



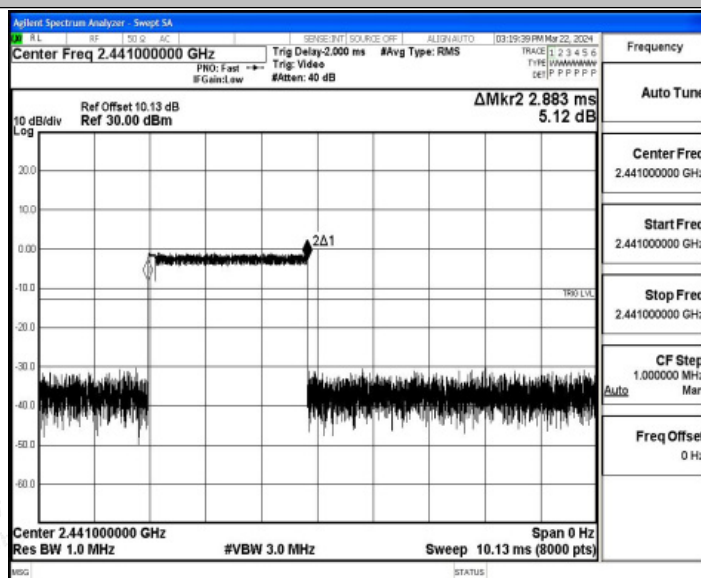
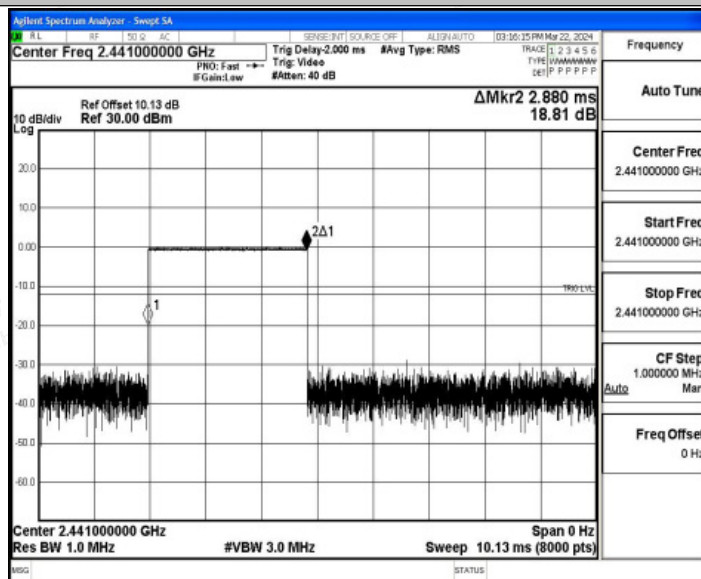


A.4 Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS







A.5 Number of hopping channels

Test Result

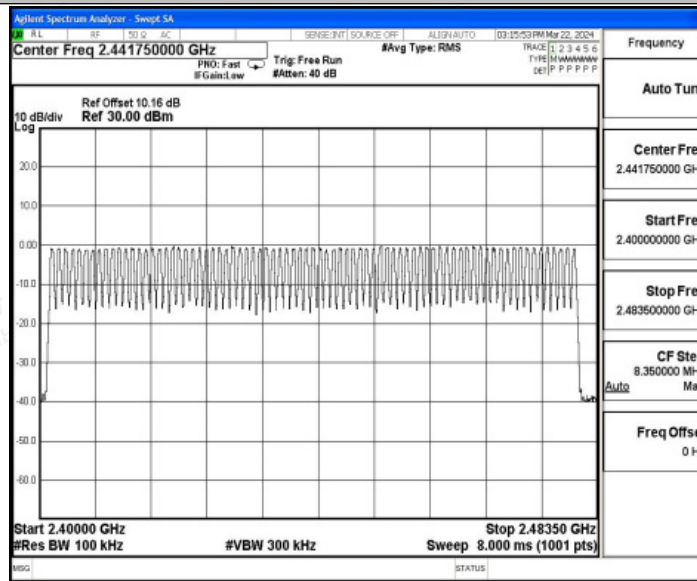
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



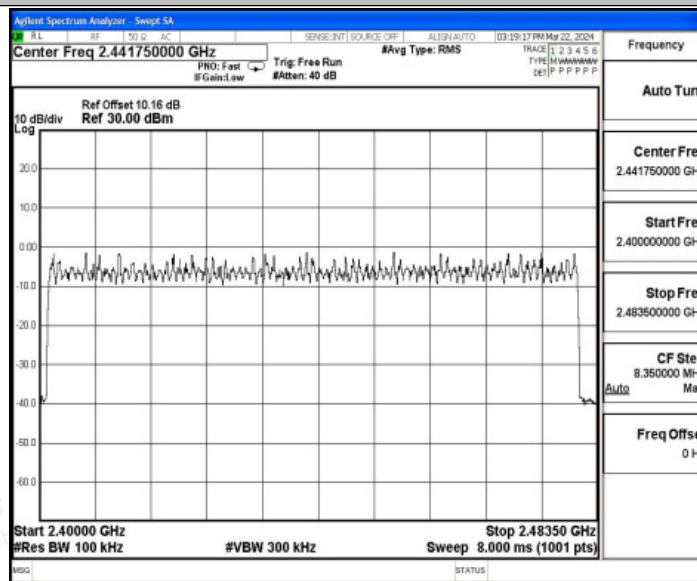


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





Reference Level

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	2402.04	-1.30	---	PASS
		2441	2440.98	-1.09	---	PASS
		2480	2480.05	-1.10	---	PASS
2DH5	Ant1	2402	2401.80	-2.84	---	PASS
		2441	2440.80	-2.37	---	PASS
		2480	2480.16	-1.67	---	PASS



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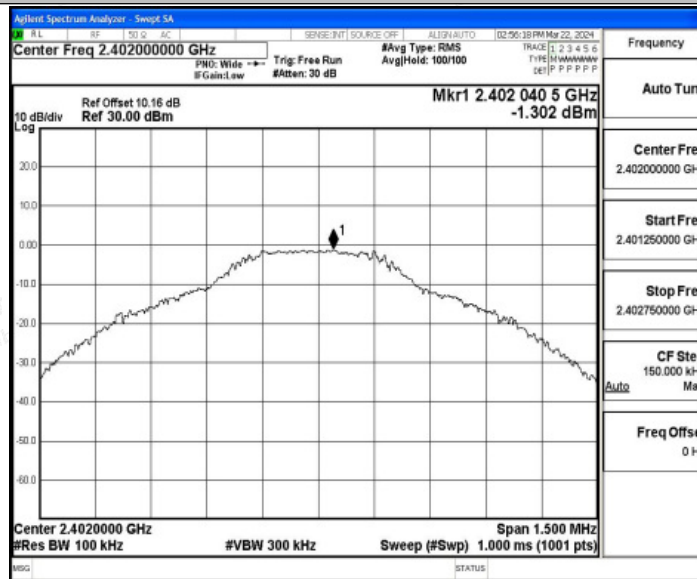
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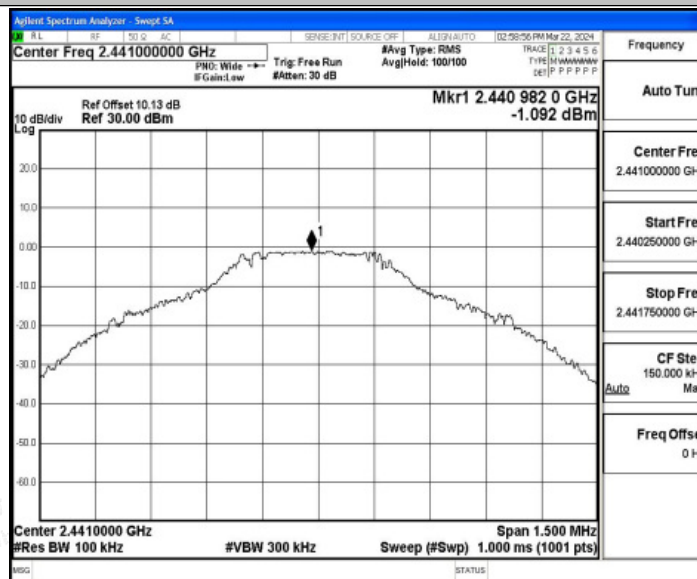


Test Graphs

DH5_Ant1_2402

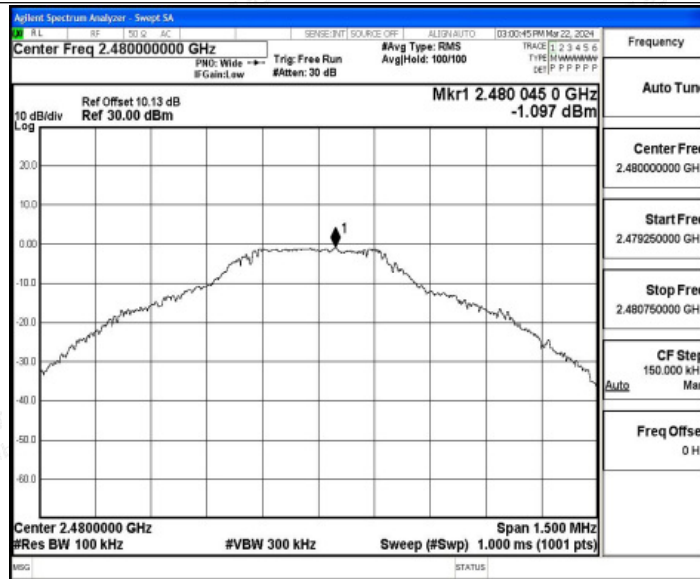


DH5_Ant1_2441

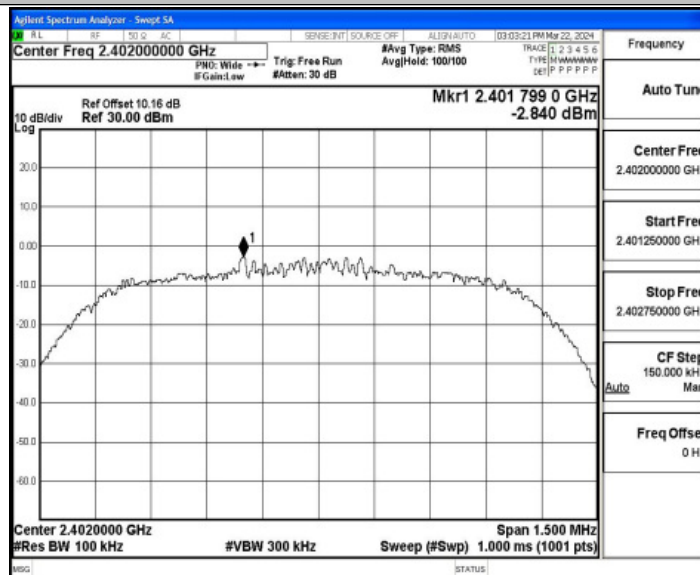


DH5_Ant1_2480



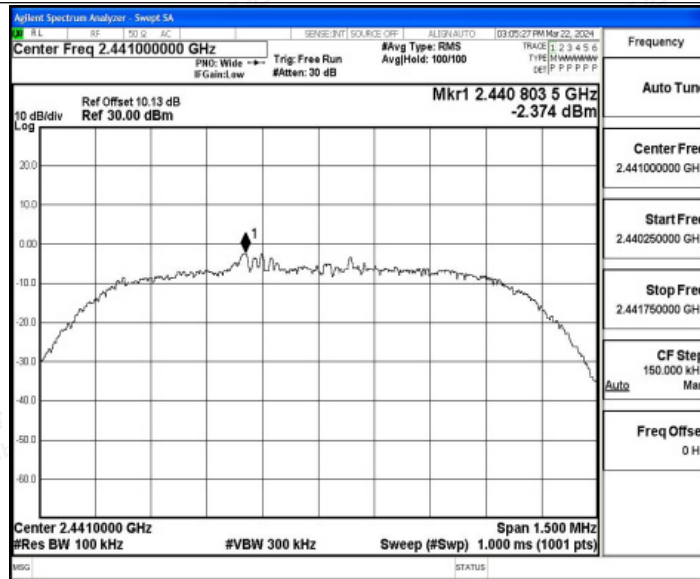


2DH5_Ant1_2402

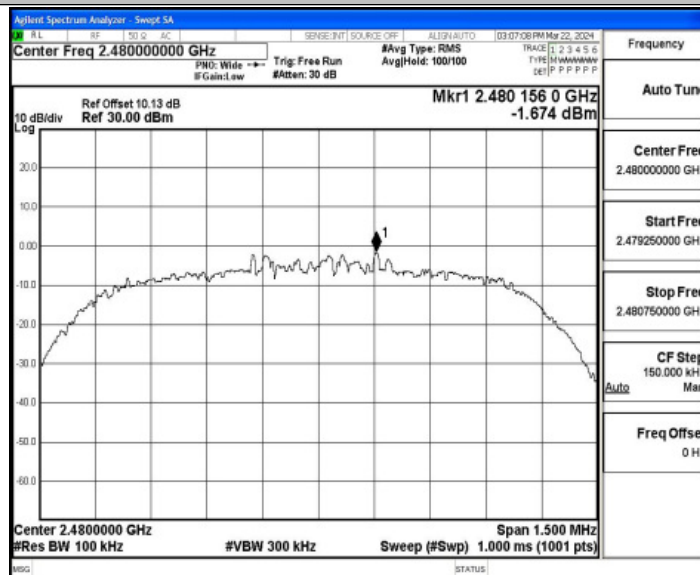


2DH5_Ant1_2441





2DH5_Ant1_2480





A.6 Band edge measurements

Test Result

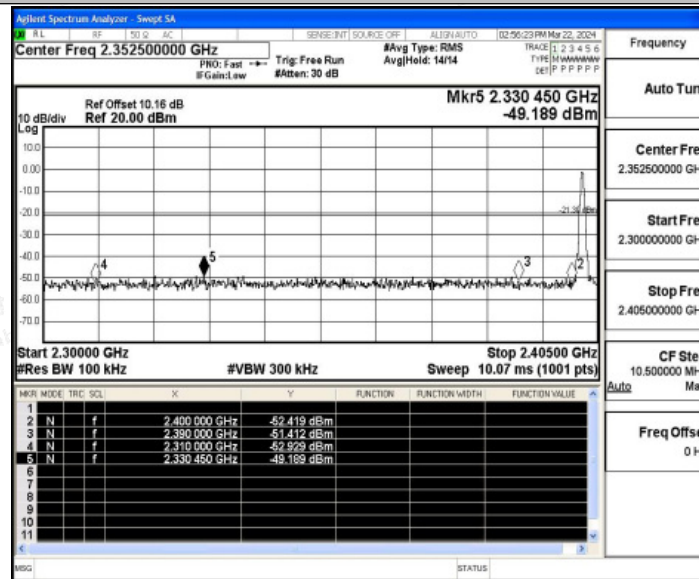
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.30	-49.19	≤ -21.3	PASS
		High	2480	-1.10	-48.39	≤ -21.1	PASS
		Low	Hop_2402	-1.43	-47.74	≤ -21.43	PASS
		High	Hop_2480	-0.39	-47.7	≤ -20.39	PASS
2DH5	Ant1	Low	2402	-2.84	-49.22	≤ -22.84	PASS
		High	2480	-1.67	-48.6	≤ -21.67	PASS
		Low	Hop_2402	-4.41	-47.55	≤ -24.41	PASS
		High	Hop_2480	-3.50	-46.87	≤ -23.5	PASS



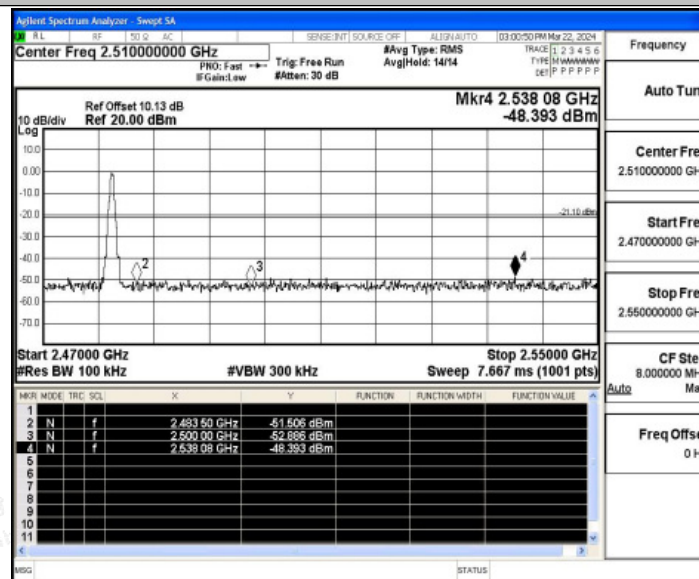


Test Graphs

DH5_Ant1_Low_2402

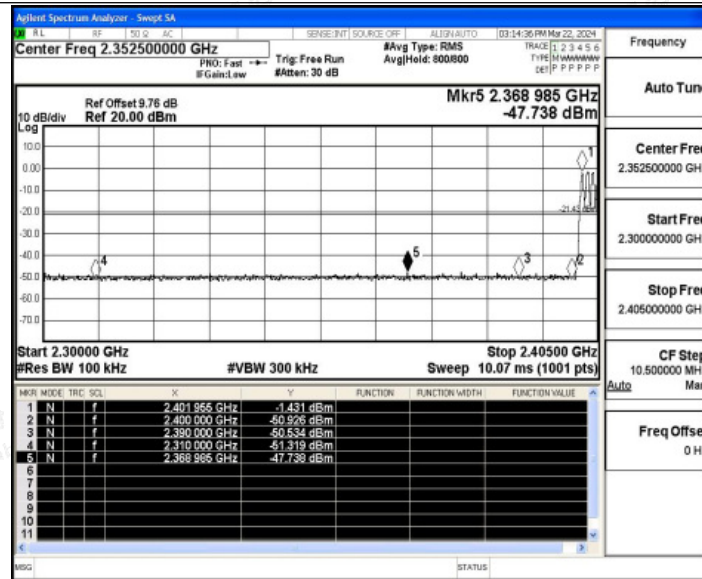


DH5_Ant1_High_2480

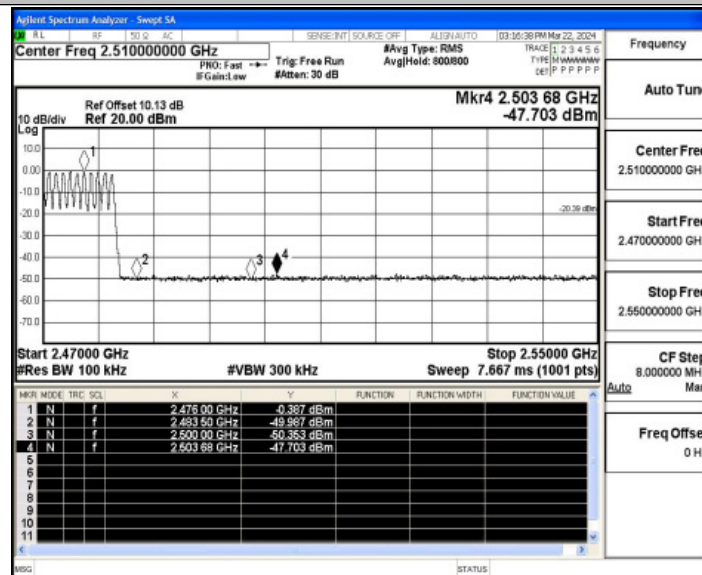


DH5_Ant1_Low_Hop_2402



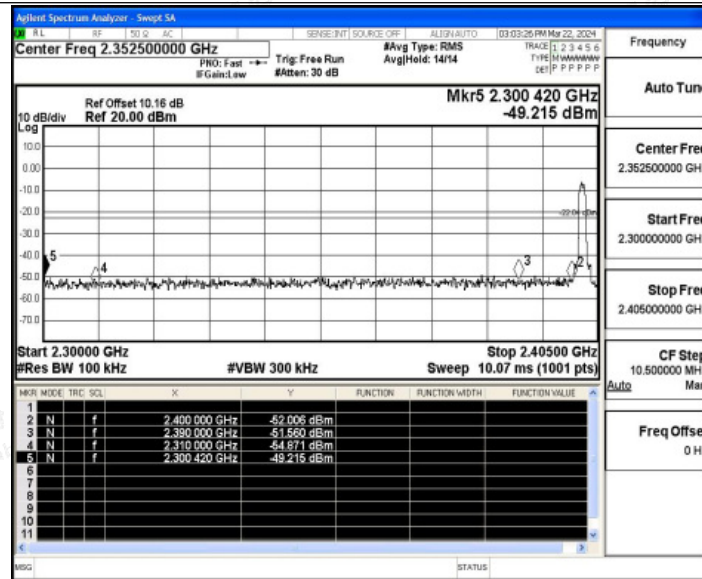


DH5_Ant1_High_Hop_2480

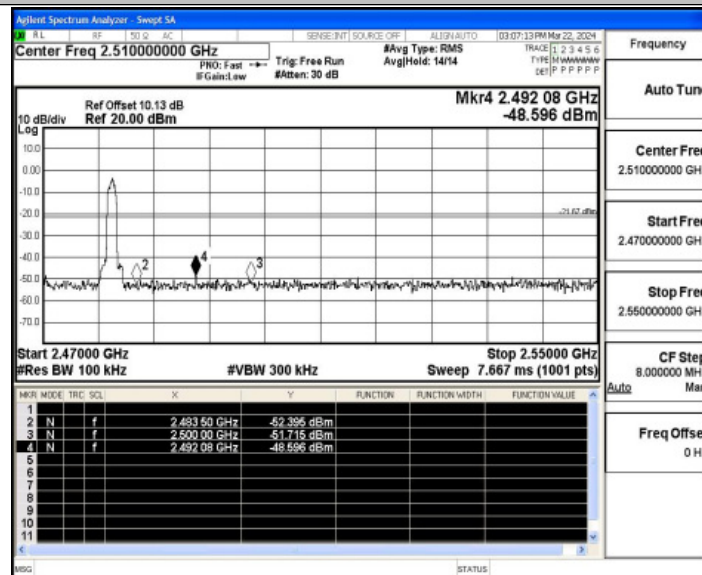


2DH5_Ant1_Low_2402



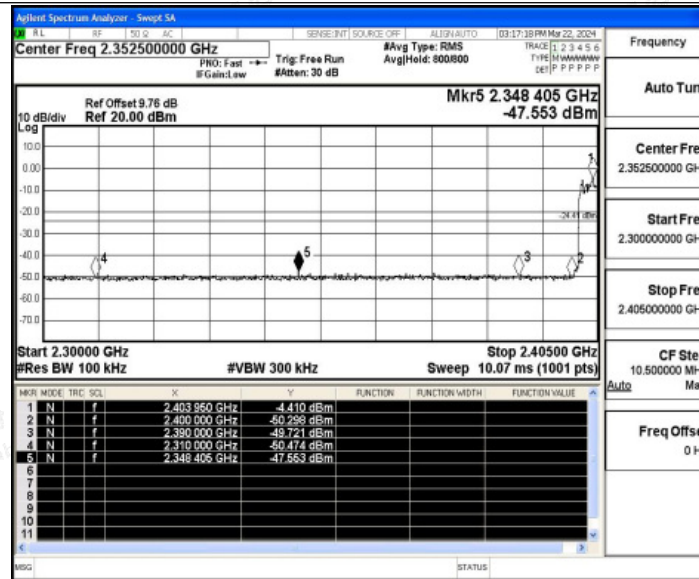


2DH5_Ant1_High_2480

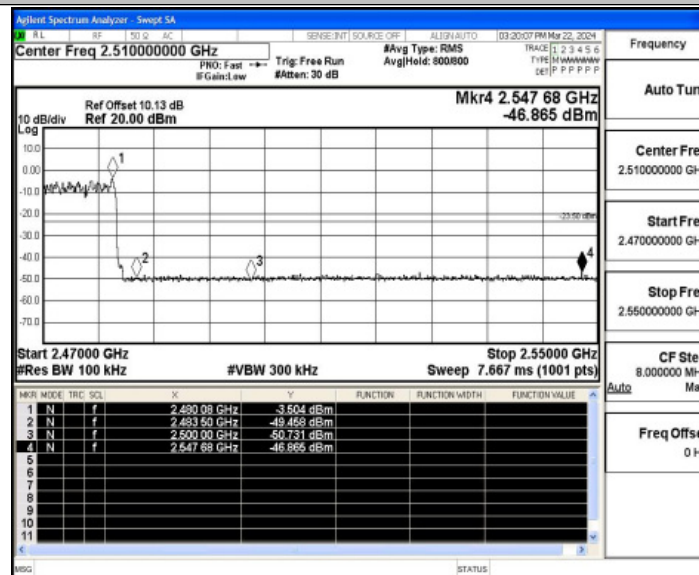


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-1.30	-59.79	≤-21.3	PASS
			1000~26500	-1.30	-47.02	≤-21.3	PASS
		2441	30~1000	-1.09	-59.85	≤-21.09	PASS
			1000~26500	-1.09	-46.43	≤-21.09	PASS
		2480	30~1000	-1.10	-59.44	≤-21.1	PASS
			1000~26500	-1.10	-46.13	≤-21.1	PASS
2DH5	Ant1	2402	30~1000	-2.84	-59.71	≤-22.84	PASS
			1000~26500	-2.84	-46.76	≤-22.84	PASS
		2441	30~1000	-2.37	-59.5	≤-22.37	PASS
			1000~26500	-2.37	-46.77	≤-22.37	PASS
		2480	30~1000	-1.67	-59.84	≤-21.67	PASS
			1000~26500	-1.67	-47	≤-21.67	PASS



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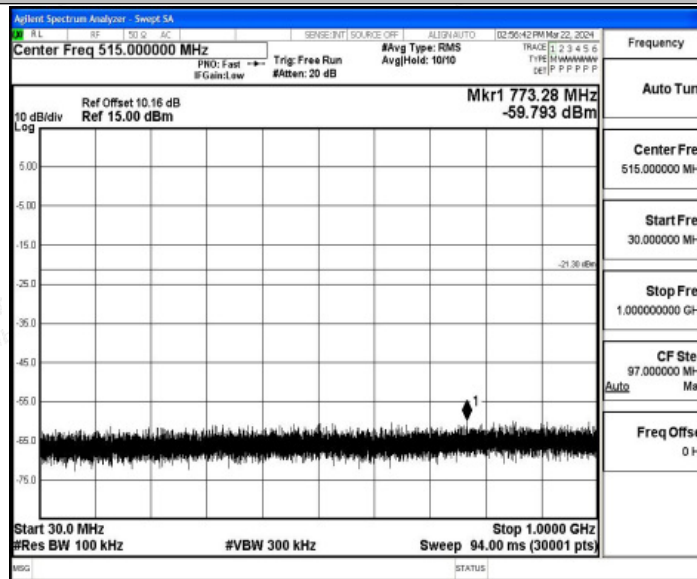
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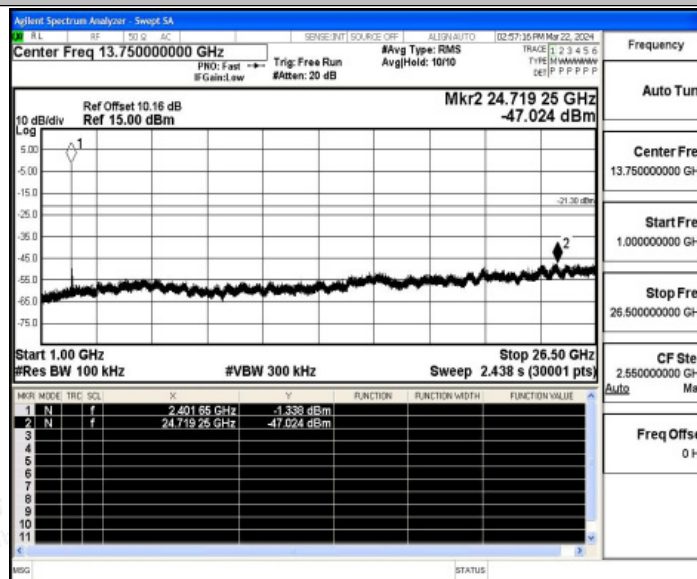


Test Graphs

DH5_Ant1_2402_30~1000

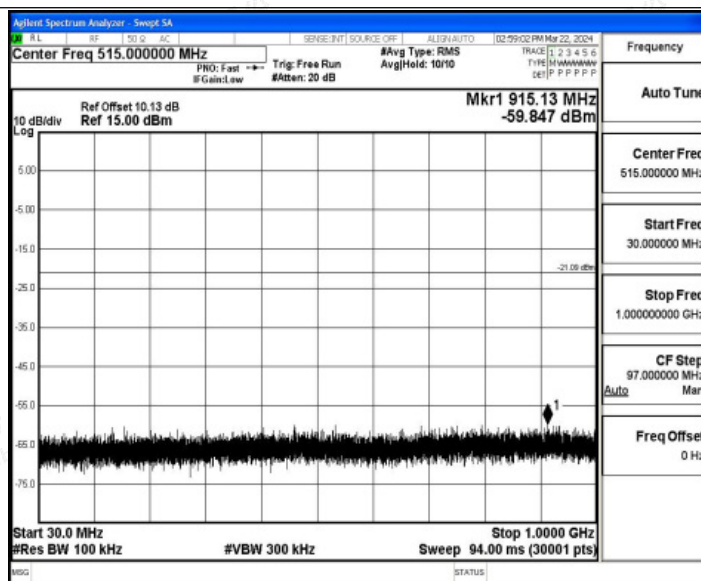


DH5_Ant1_2402_1000~26500

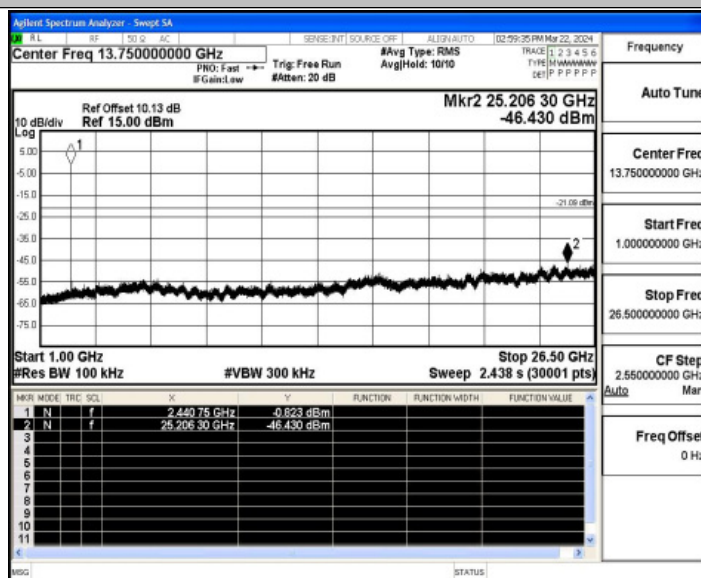


DH5_Ant1_2441_30~1000





DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_30~1000

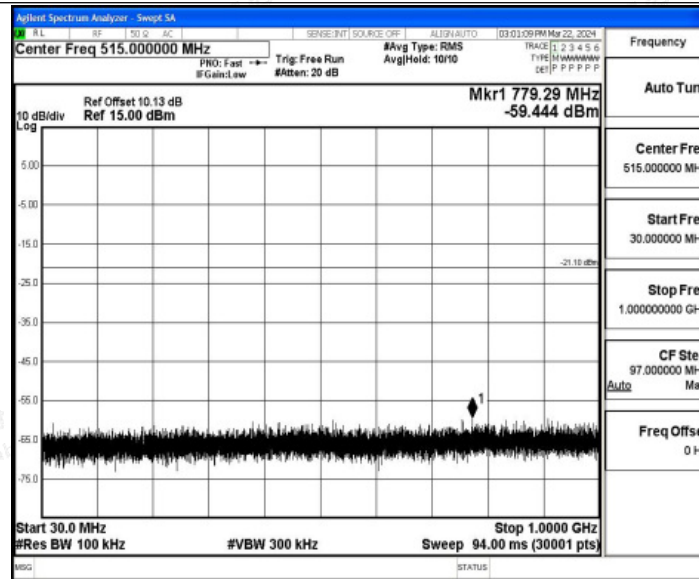


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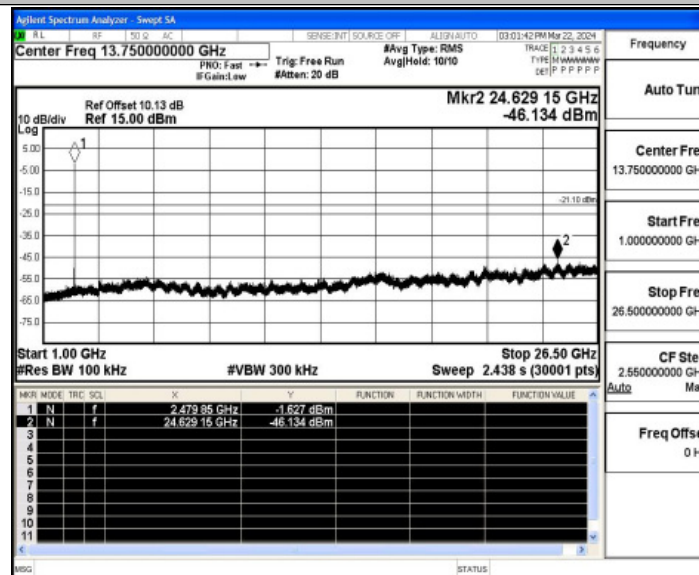
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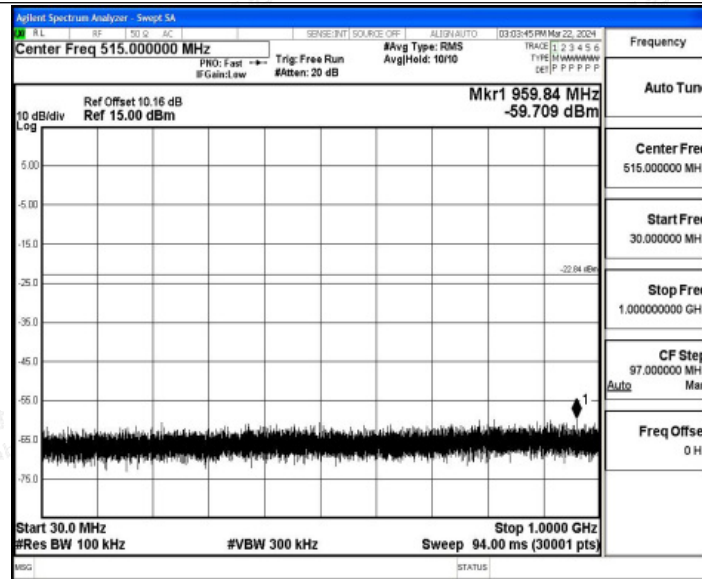


DH5_Ant1_2480_1000~26500

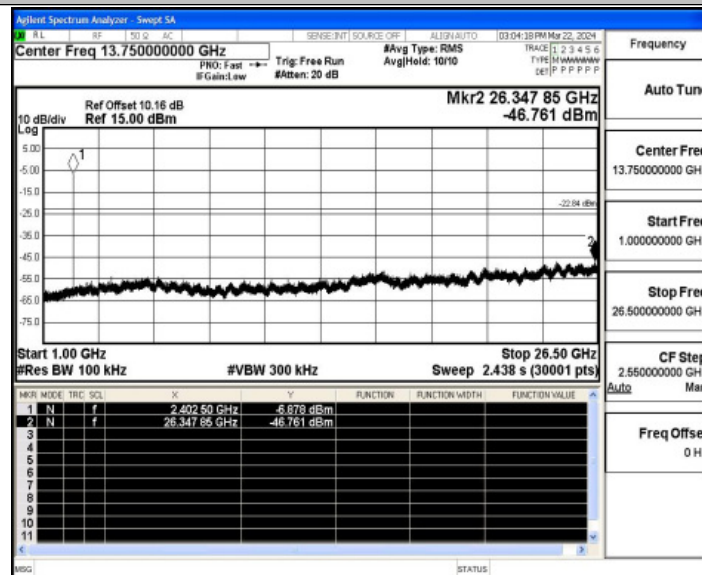


2DH5_Ant1_2402_30~1000



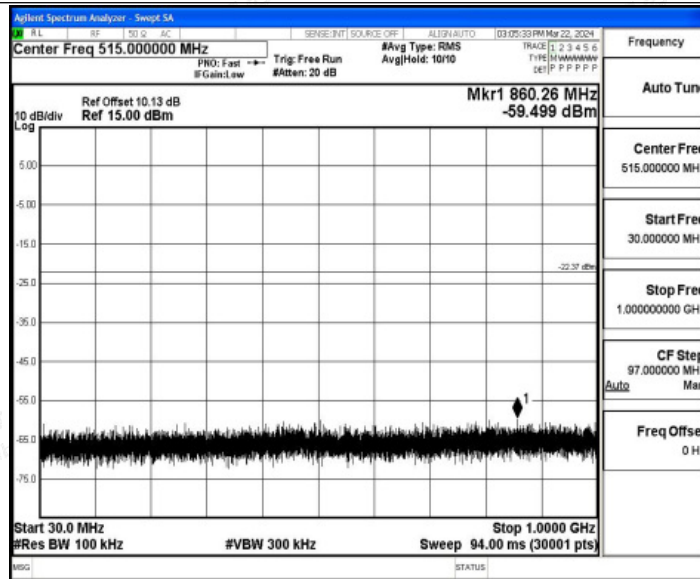


2DH5_Ant1_2402_1000~26500

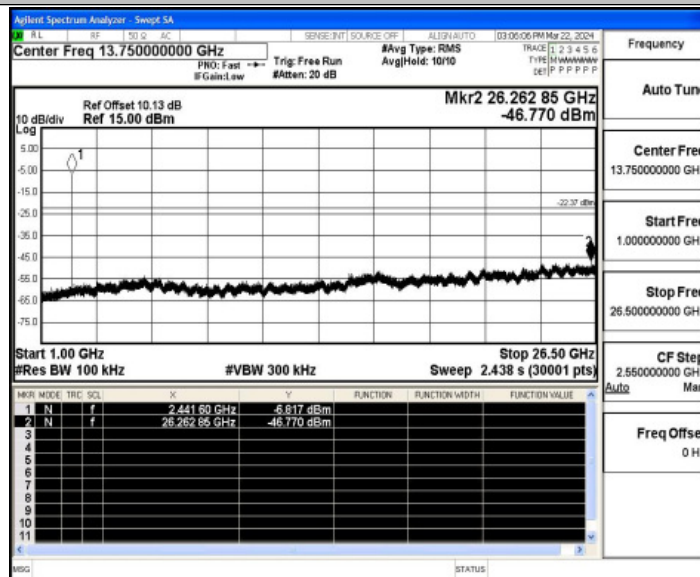


2DH5_Ant1_2441_30~1000



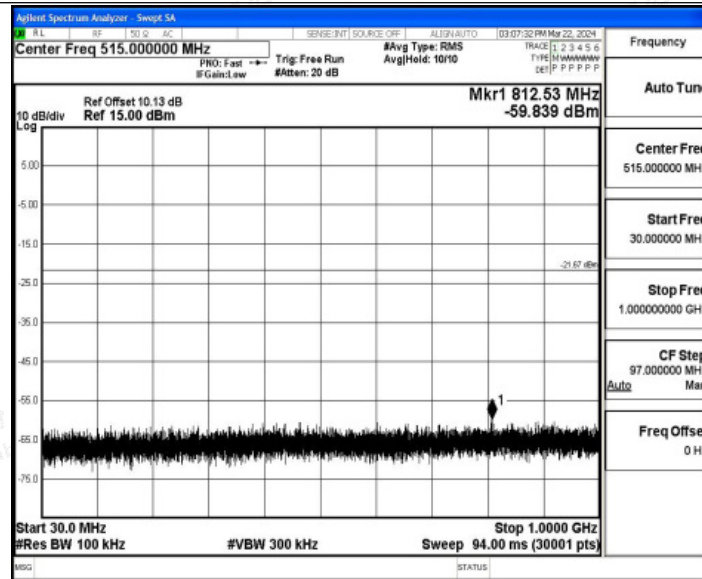


2DH5_Ant1_2441_1000~26500

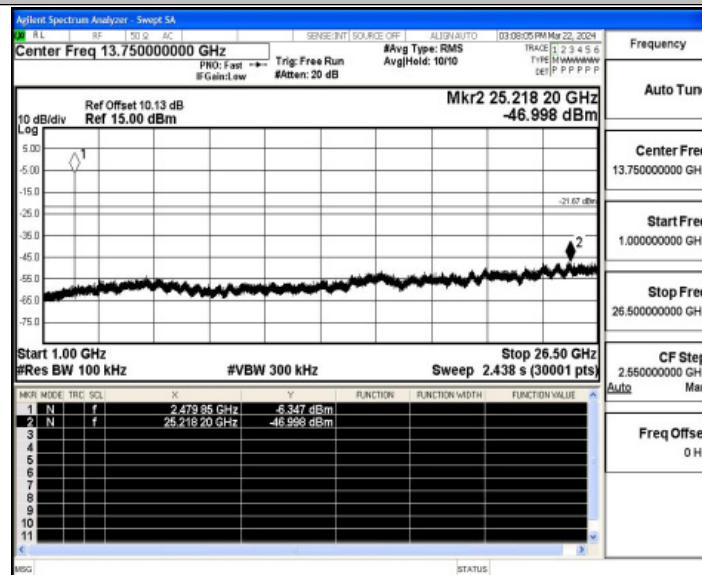


2DH5_Ant1_2480_30~1000





2DH5_Ant1_2480_1000~26500





A.8 Duty Cycle

Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant1	2402	2.88	3.75	76.80	1.15	0.35
		2441	2.88	3.75	76.80	1.15	0.35
		2480	2.88	3.75	76.80	1.15	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.89	3.75	77.07	1.13	0.35



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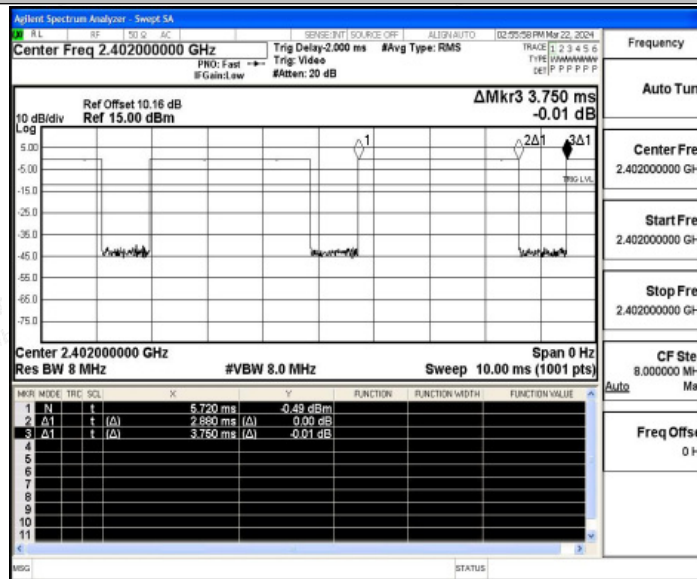
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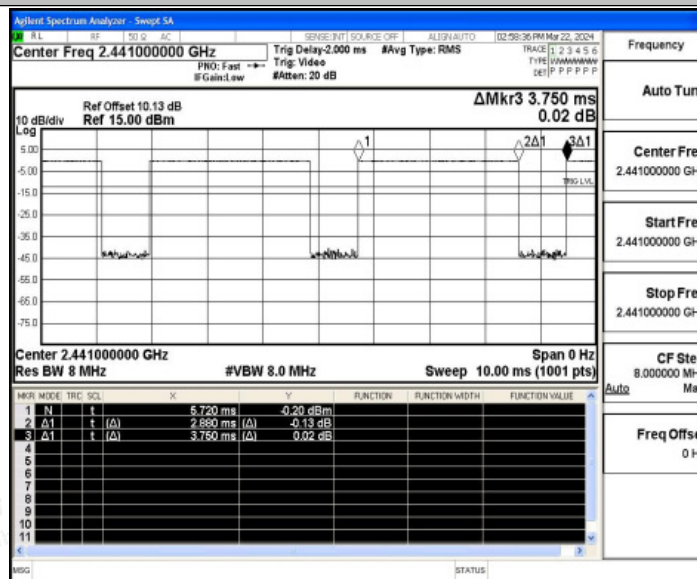


Test Graphs

DH5_Ant1_2402

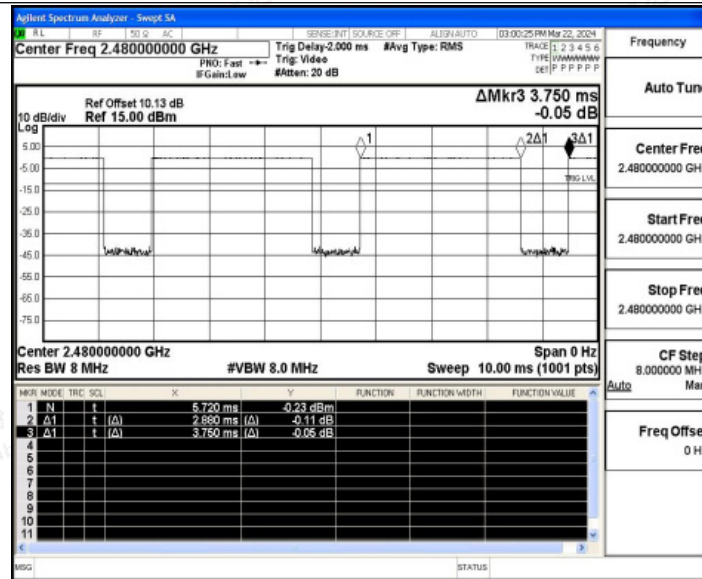


DH5_Ant1_2441

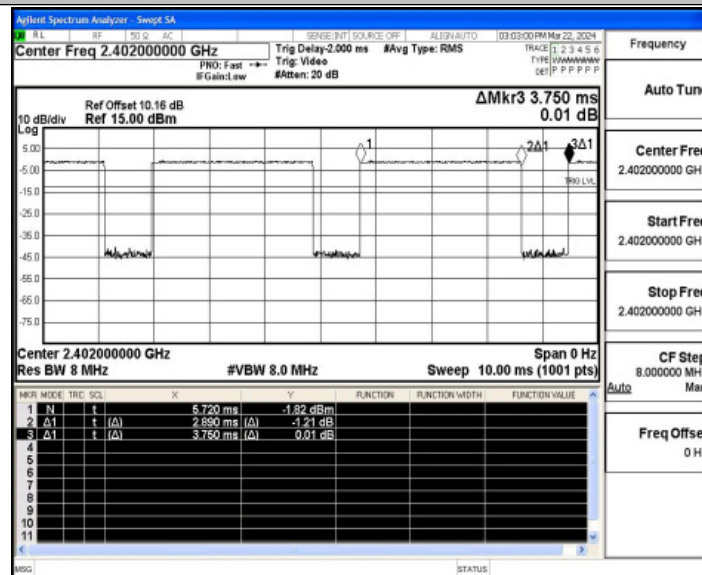


DH5_Ant1_2480



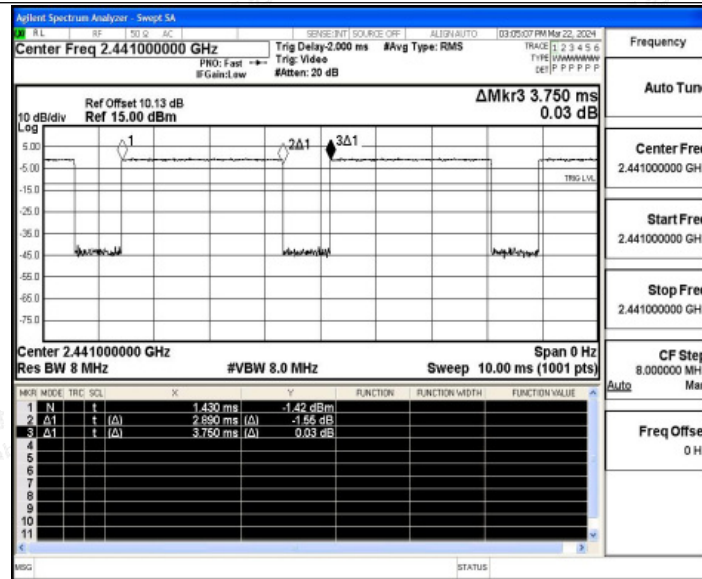


2DH5_Ant1_2402

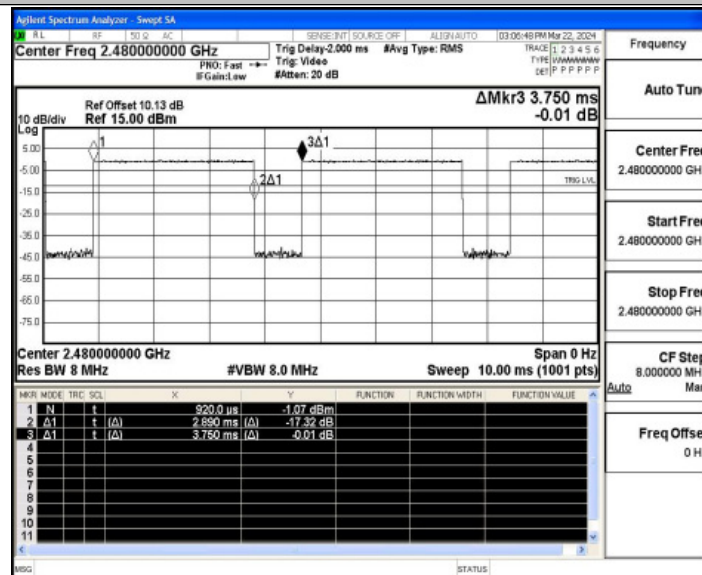


2DH5_Ant1_2441





2DH5_Ant1_2480





A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-46.67	≤-41.20	48.53	≤54	PASS
				AV	2388.935	-45.64	≤-41.20	49.56	≤54	PASS
				AV	2390.000	-46.42	≤-41.20	48.78	≤54	PASS
				Peak	2310.000	-40.09	≤-21.20	55.11	≤74	PASS
				Peak	2389.880	-36.01	≤-21.20	59.19	≤74	PASS
				Peak	2390.000	-40.36	≤-21.20	54.84	≤74	PASS
		High	2480	AV	2483.500	-46.53	≤-41.20	48.67	≤54	PASS
				AV	2496.480	-45.64	≤-41.20	49.56	≤54	PASS
				AV	2500.000	-46.44	≤-41.20	48.76	≤54	PASS
				Peak	2483.500	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	2490.880	-37.06	≤-21.20	58.14	≤74	PASS
				Peak	2500.000	-38.34	≤-21.20	56.86	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-46.77	≤-41.20	48.43	≤54	PASS
				AV	2380.850	-45.8	≤-41.20	49.40	≤54	PASS
				AV	2390.000	-46.92	≤-41.20	48.28	≤54	PASS
				Peak	2310.000	-40.76	≤-21.20	54.44	≤74	PASS
				Peak	2378.015	-36.12	≤-21.20	59.08	≤74	PASS
				Peak	2390.000	-39.84	≤-21.20	55.36	≤74	PASS
		High	2480	AV	2483.500	-46.86	≤-41.20	48.34	≤54	PASS
				AV	2495.840	-45.63	≤-41.20	49.57	≤54	PASS
				AV	2500.000	-46.47	≤-41.20	48.73	≤54	PASS
				Peak	2483.500	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2495.680	-36.99	≤-21.20	58.21	≤74	PASS
				Peak	2500.000	-39.35	≤-21.20	55.85	≤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.

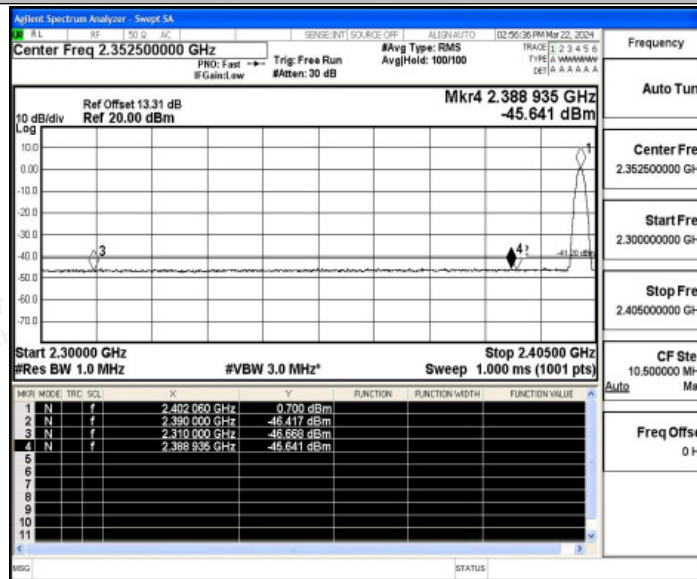


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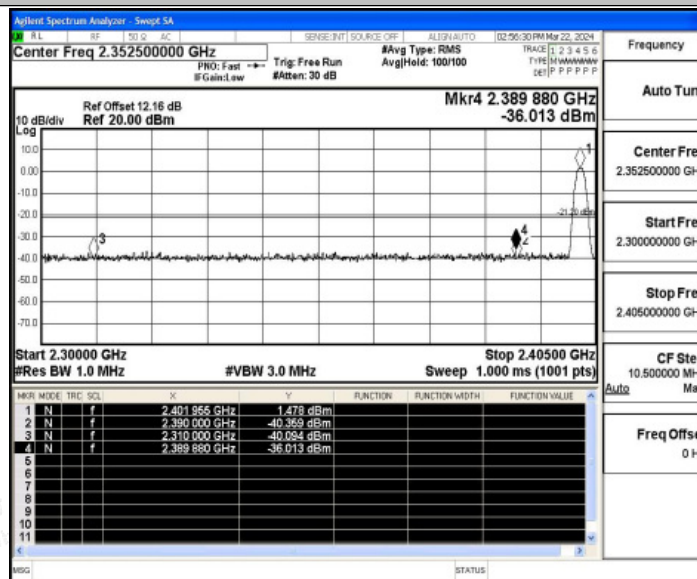


Test Graphs

DH5_Ant1_Low_2402_AV

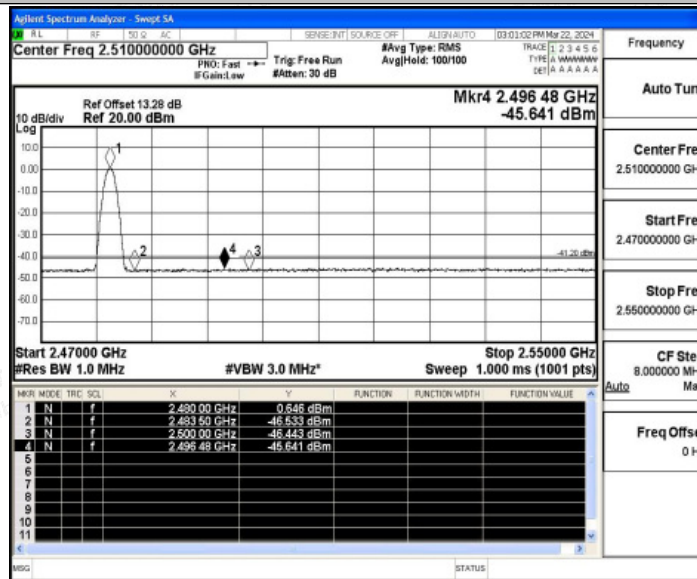


DH5_Ant1_Low_2402_Peak

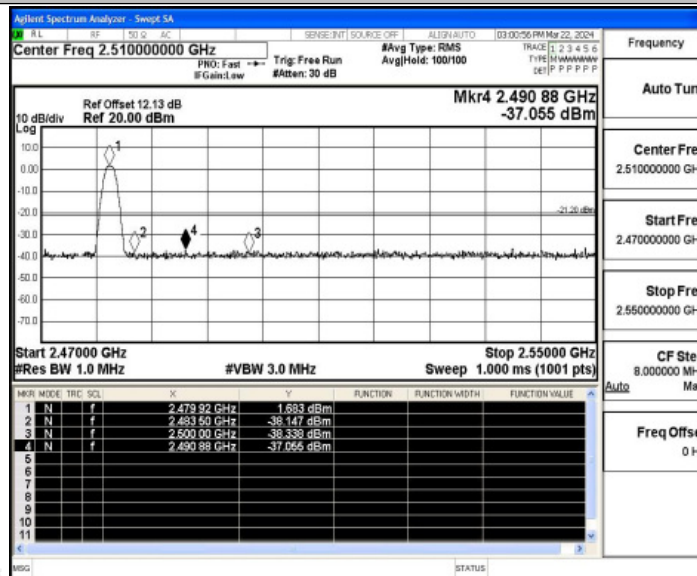




DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



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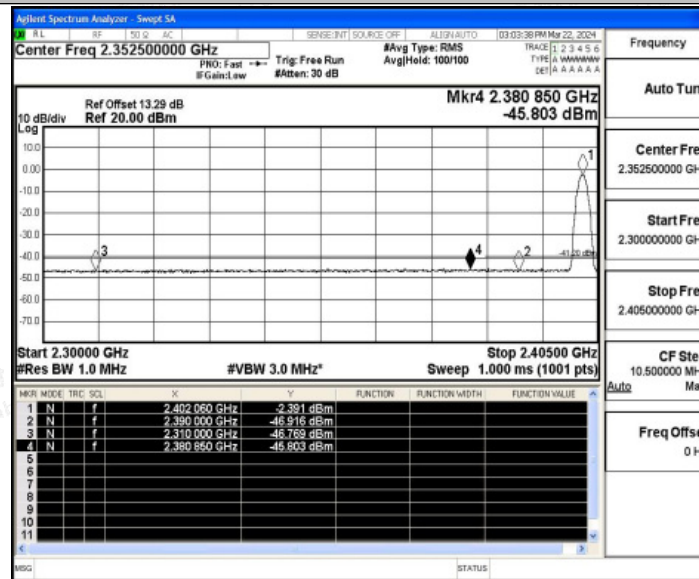
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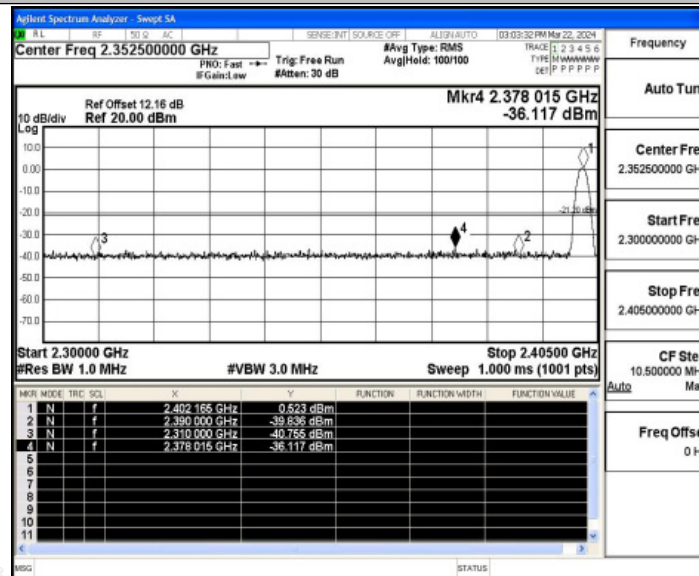
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2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



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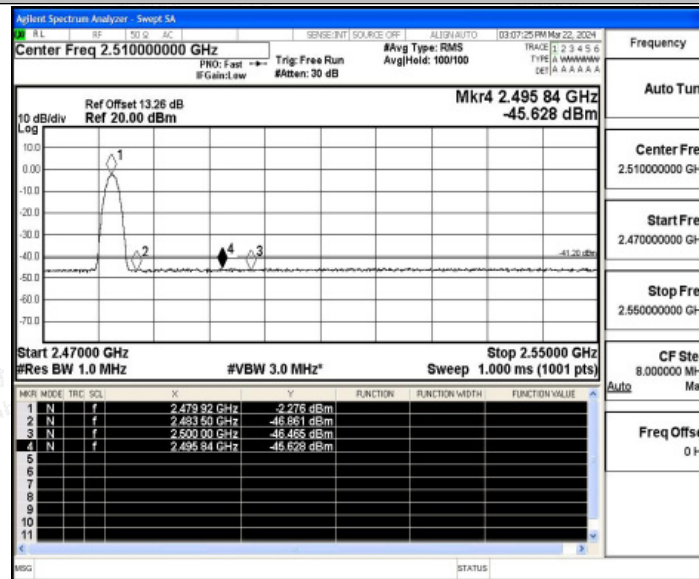
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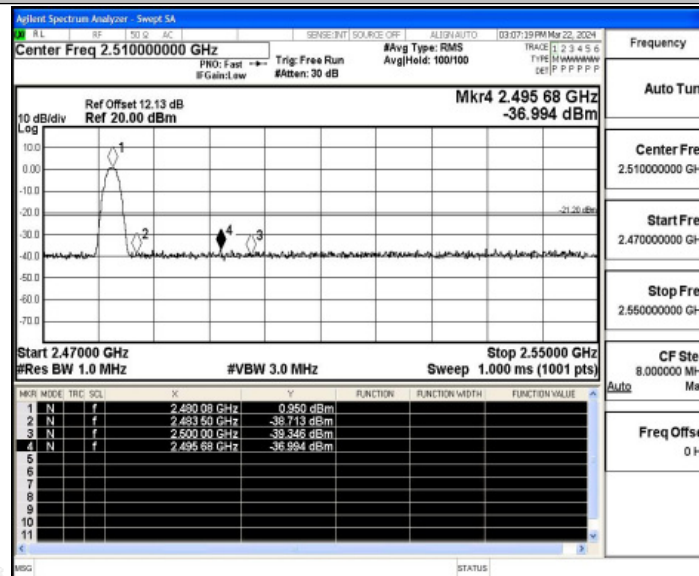
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2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak



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