Appendix A
RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Free Loop 1

Trade Mark: D.M LIFE

Test Model: DM-H200

FCC ID: 2AZH8-DM-H200

Environmental Conditions

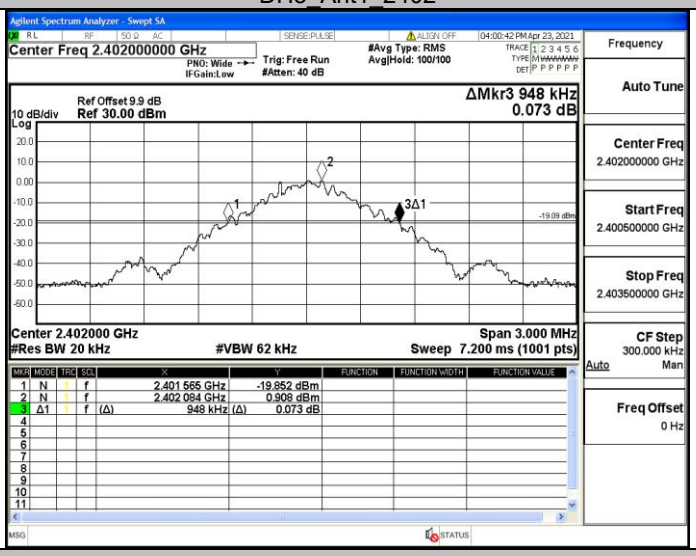
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

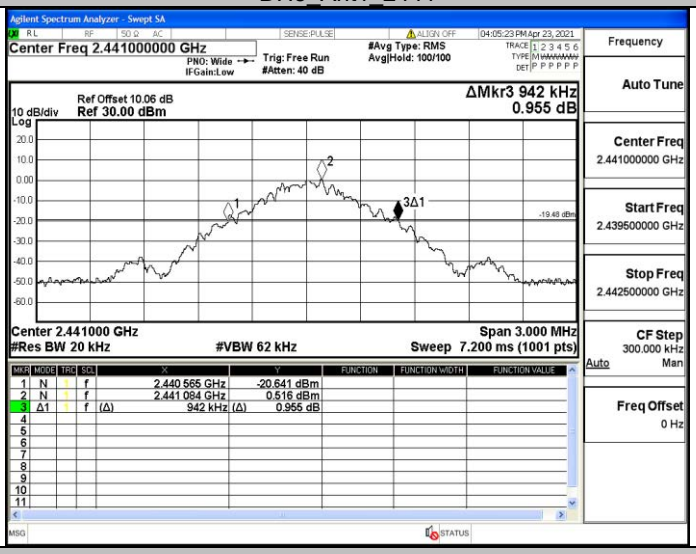
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.565	2402.513	---	PASS
		2441	0.942	2440.565	2441.507	---	PASS
		2480	0.945	2479.562	2480.507	---	PASS
2DH5	Ant1	2402	1.320	2401.361	2402.681	---	PASS
		2441	1.314	2440.364	2441.678	---	PASS
		2480	1.308	2479.367	2480.675	---	PASS
3DH5	Ant1	2402	1.263	2401.376	2402.639	---	PASS
		2441	1.263	2440.376	2441.639	---	PASS
		2480	1.284	2479.370	2480.654	---	PASS

Test Graph

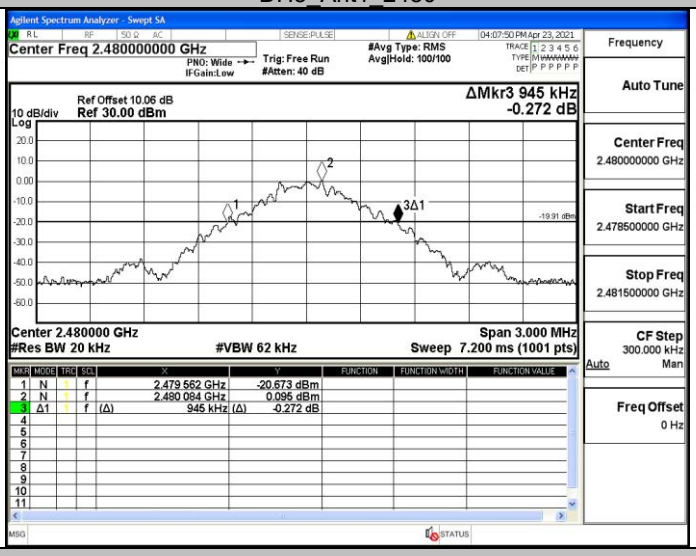
DH5_Ant1_2402



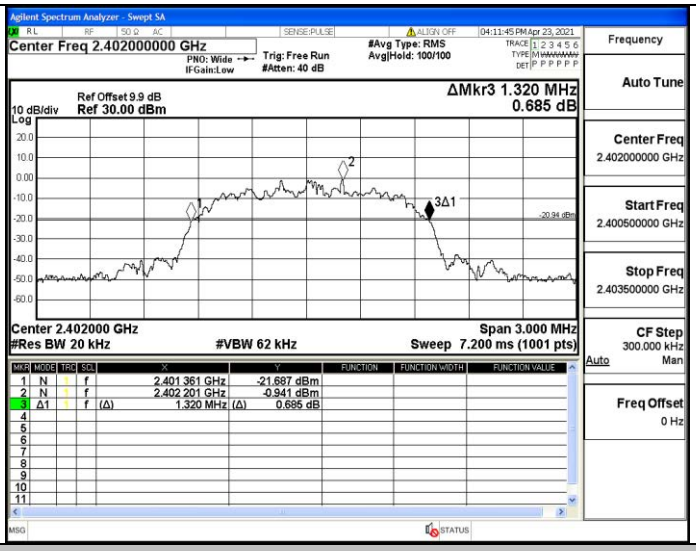
DH5_Ant1_2441



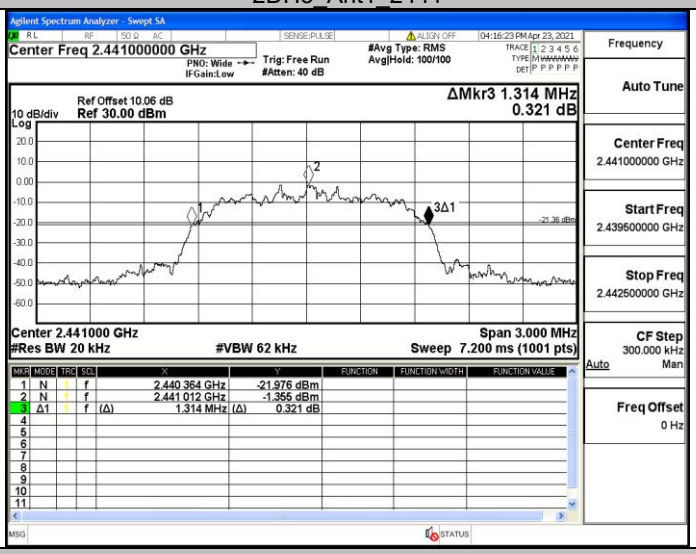
DH5_Ant1_2480



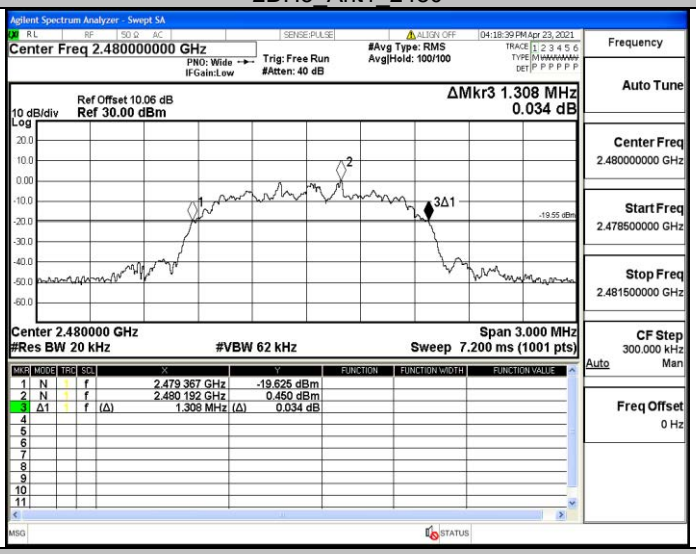
2DH5_Ant1_2402



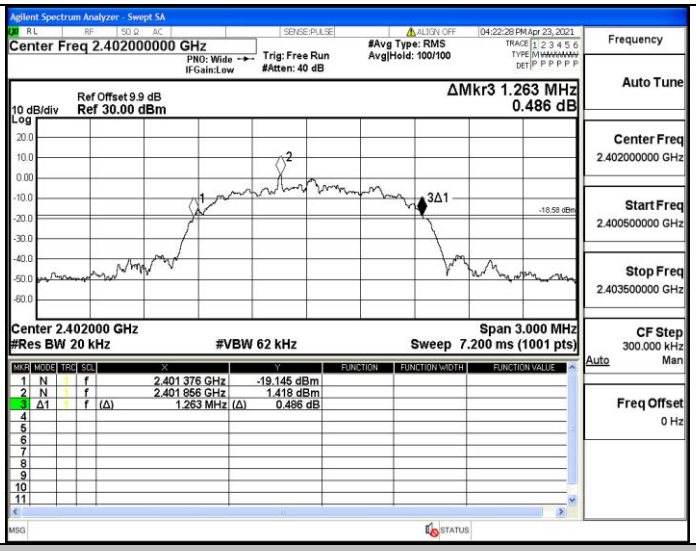
2DH5_Ant1_2441



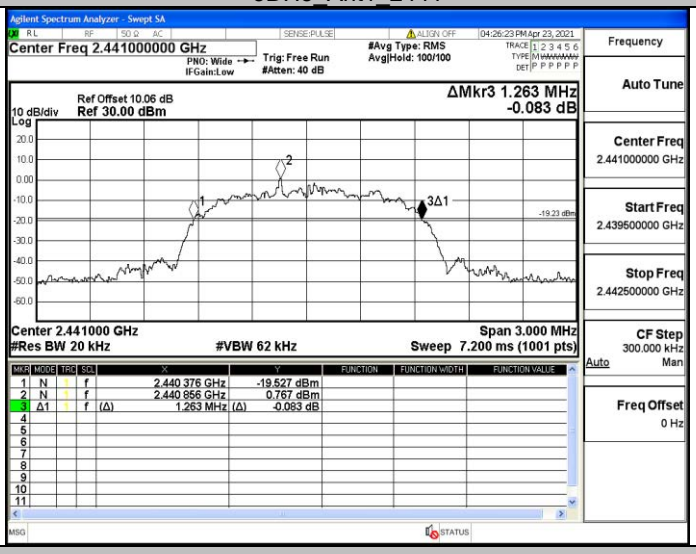
2DH5_Ant1_2480



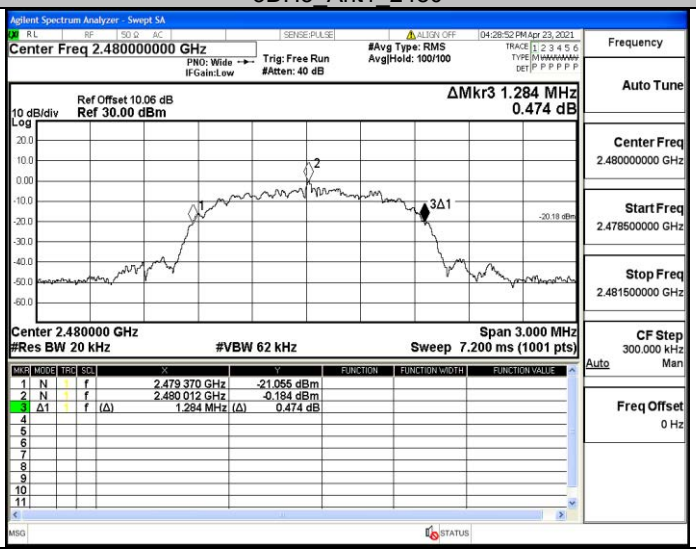
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

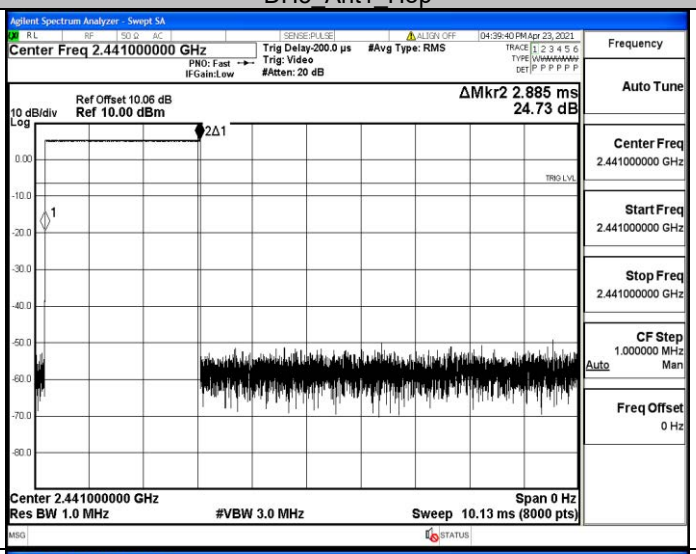


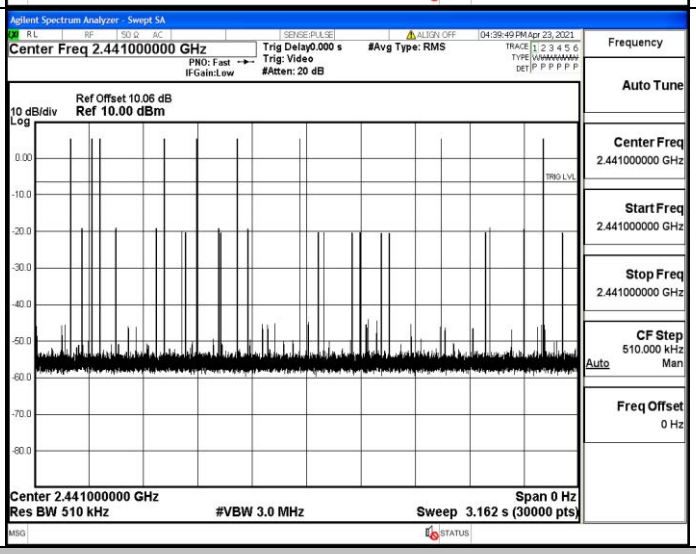
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	100	0.289	<=0.4	PASS
2DH5	Ant1	Hop	2.89	80	0.231	<=0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS

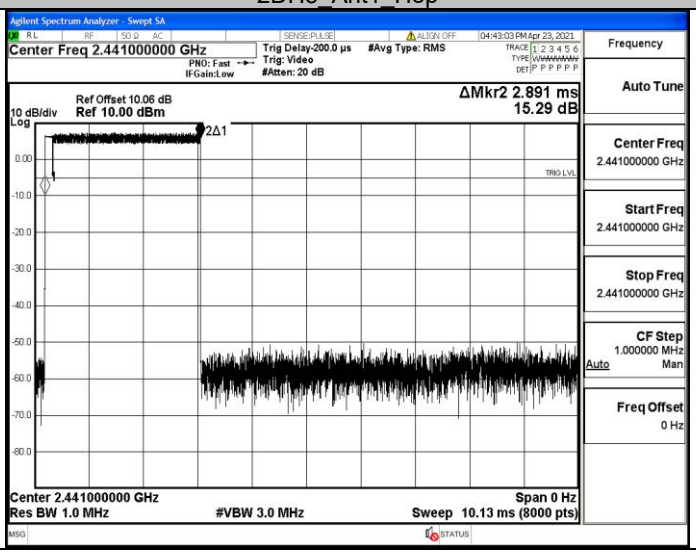
Test Graph

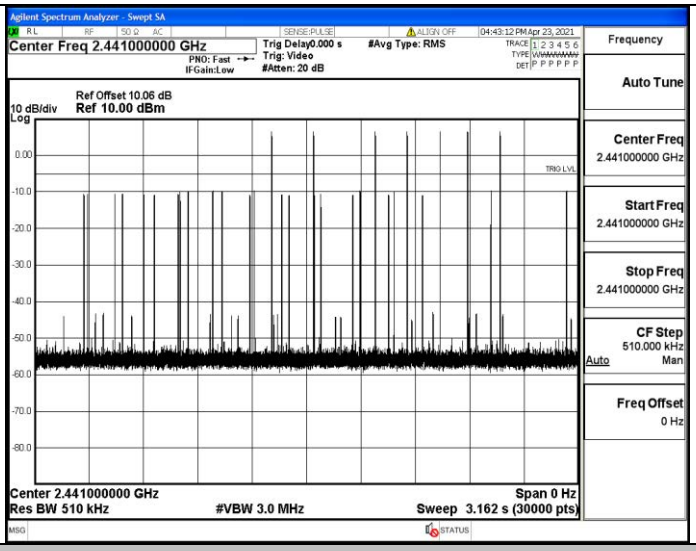
DH5_Ant1_Hop



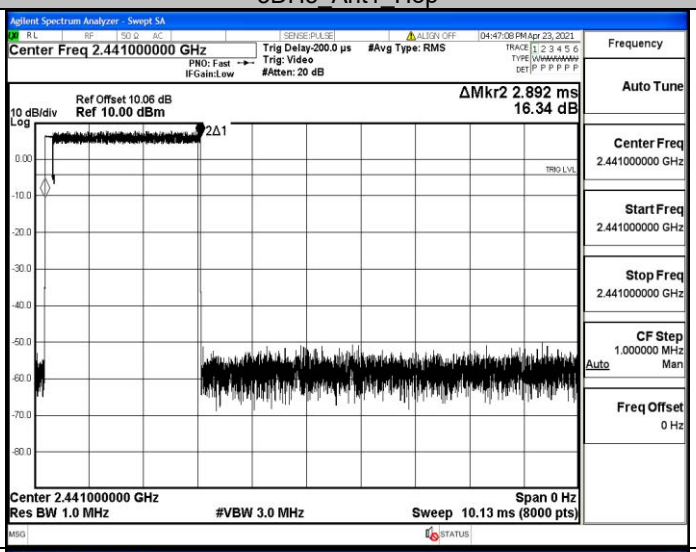


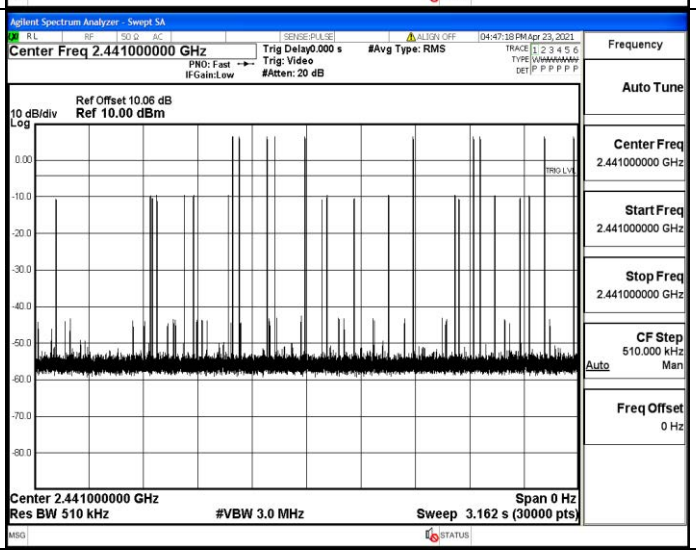
2DH5_Ant1_Hop





3DH5_Ant1_Hop



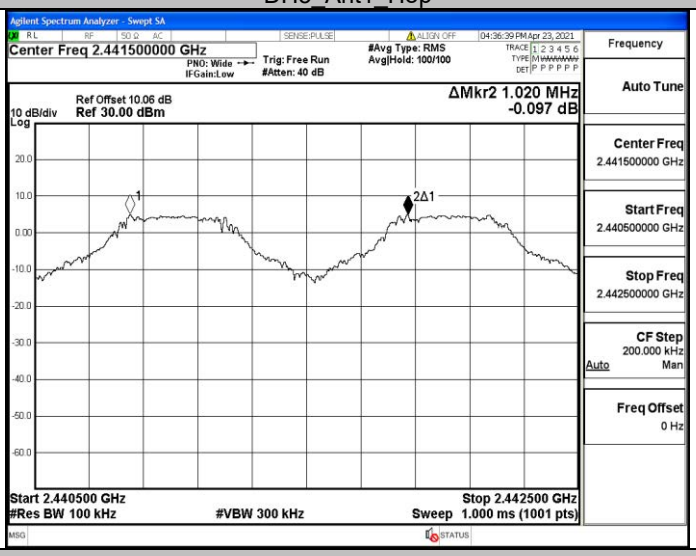


A.3 Carrier Frequency Separation

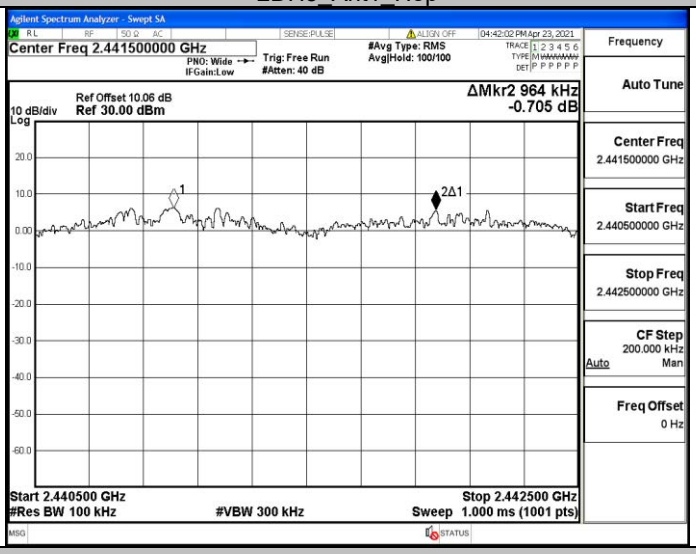
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	>=0.746	PASS
2DH5	Ant1	Hop	0.964	>=0.942	PASS
3DH5	Ant1	Hop	0.994	>=0.916	PASS

Test Graph

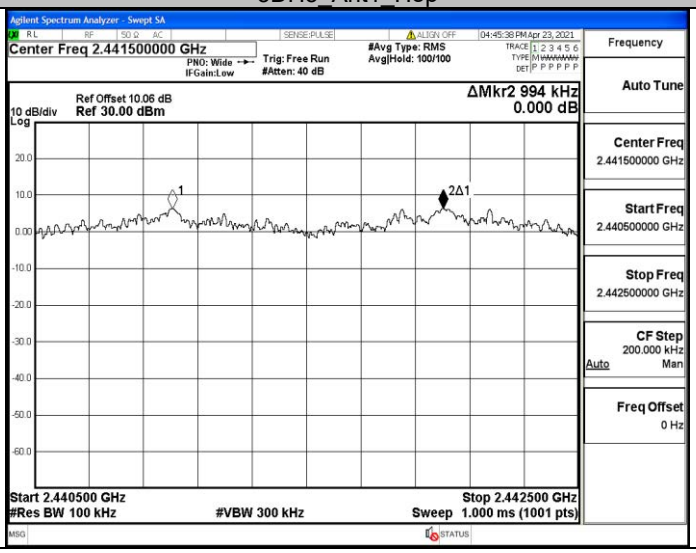
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

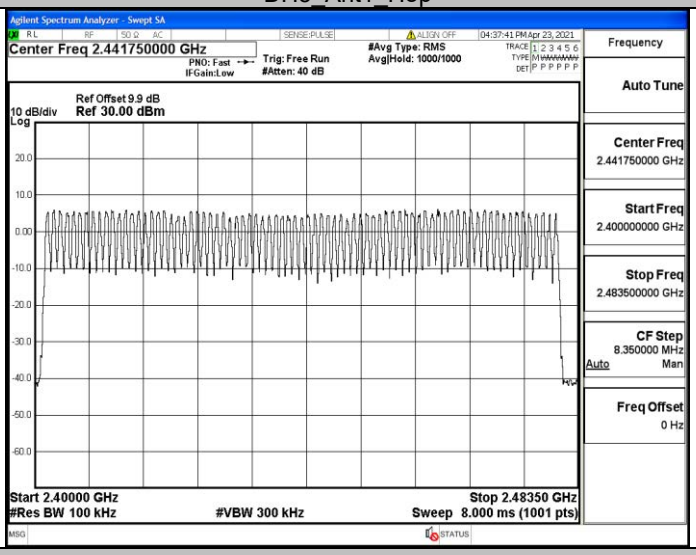


A.4 Hopping Channel Number

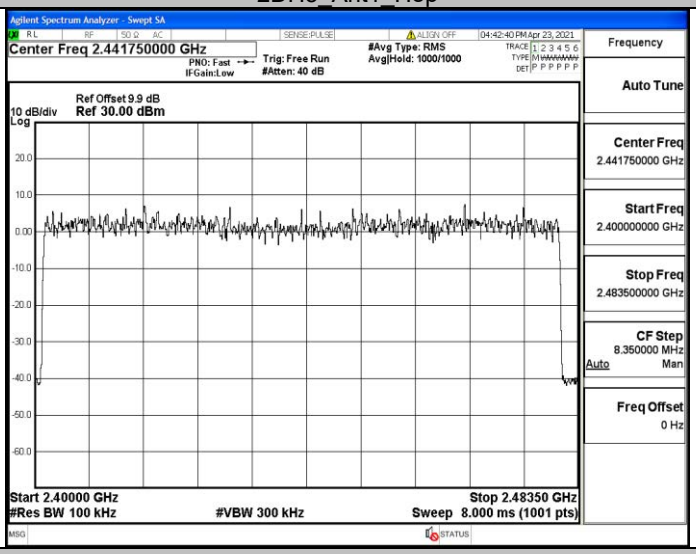
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

Test Graph

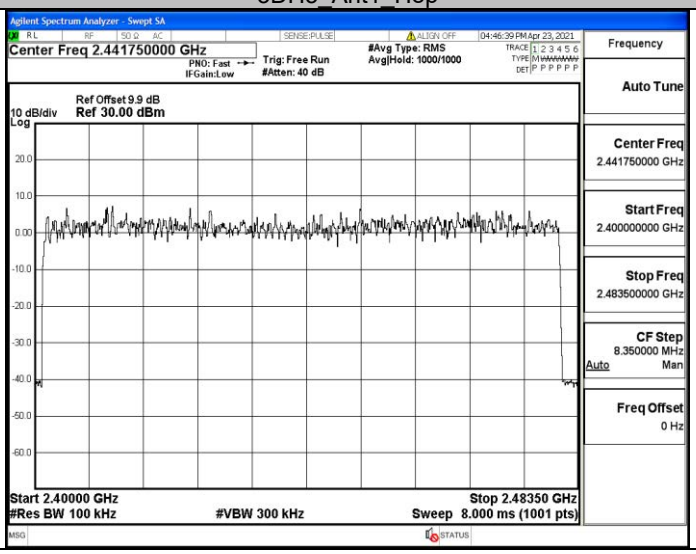
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

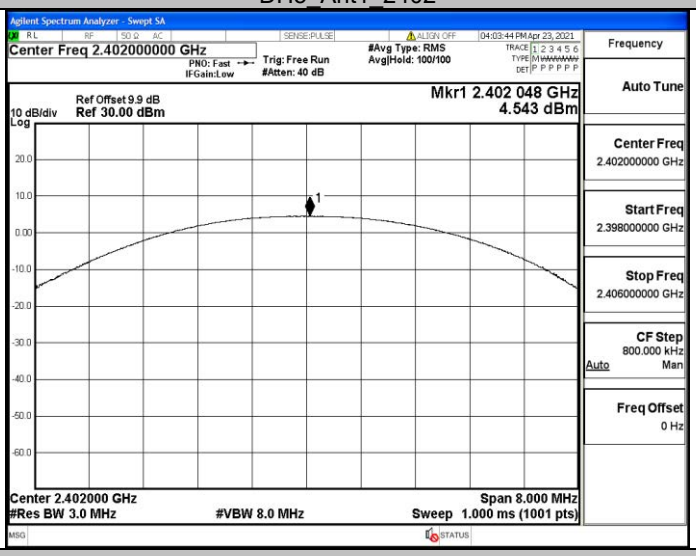


A.5 Conducted Peak Output Power

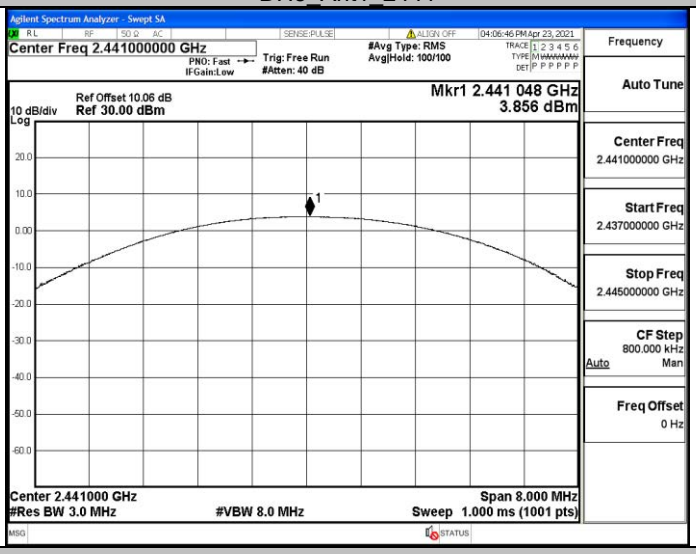
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.54	<=20.97	PASS
		2441	3.86	<=20.97	PASS
		2480	3.5	<=20.97	PASS
2DH5	Ant1	2402	5.41	<=20.97	PASS
		2441	5.82	<=20.97	PASS
		2480	6.15	<=20.97	PASS
3DH5	Ant1	2402	7.04	<=20.97	PASS
		2441	6.48	<=20.97	PASS
		2480	6.82	<=20.97	PASS

Test Graph

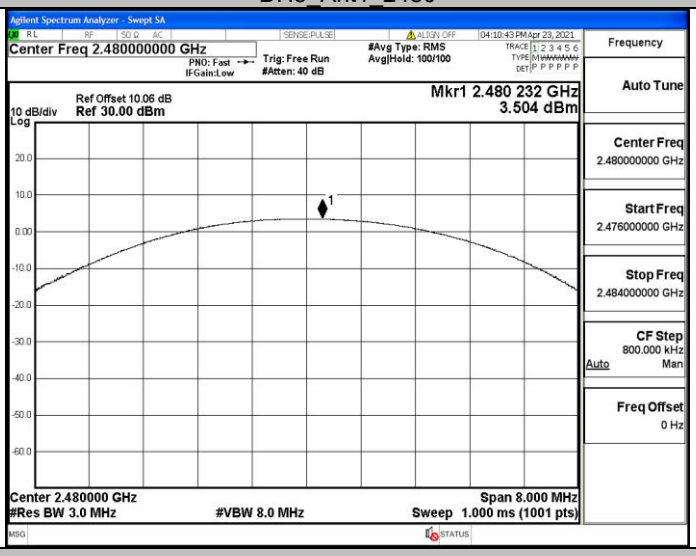
DH5_Ant1_2402



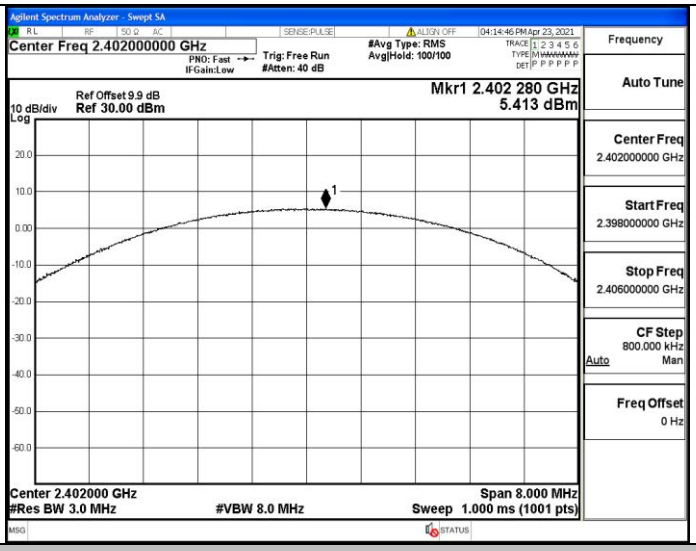
DH5_Ant1_2441



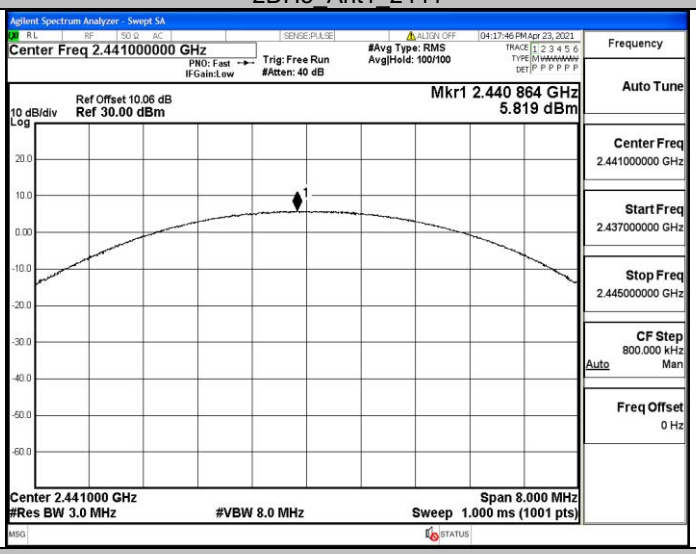
DH5_Ant1_2480



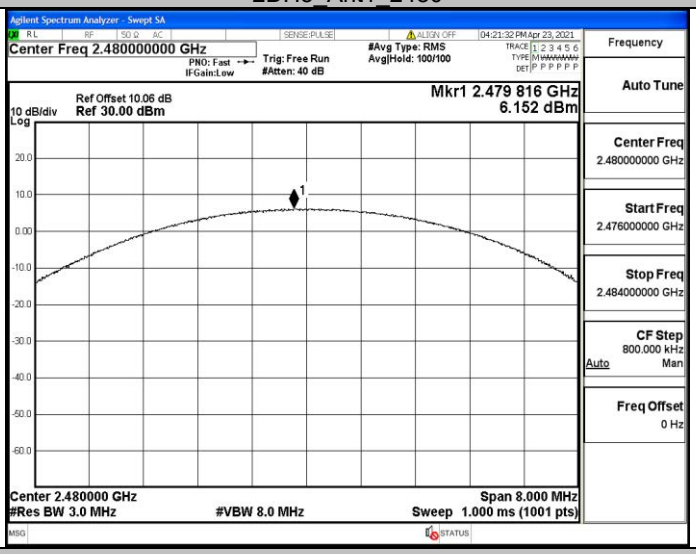
2DH5_Ant1_2402



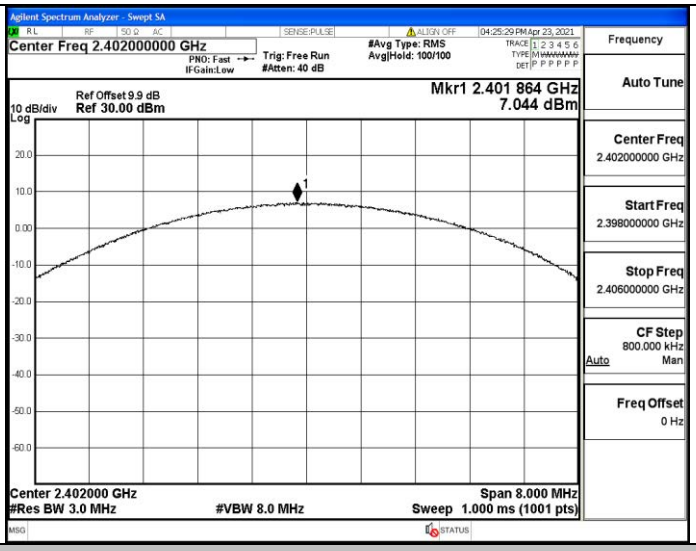
2DH5_Ant1_2441



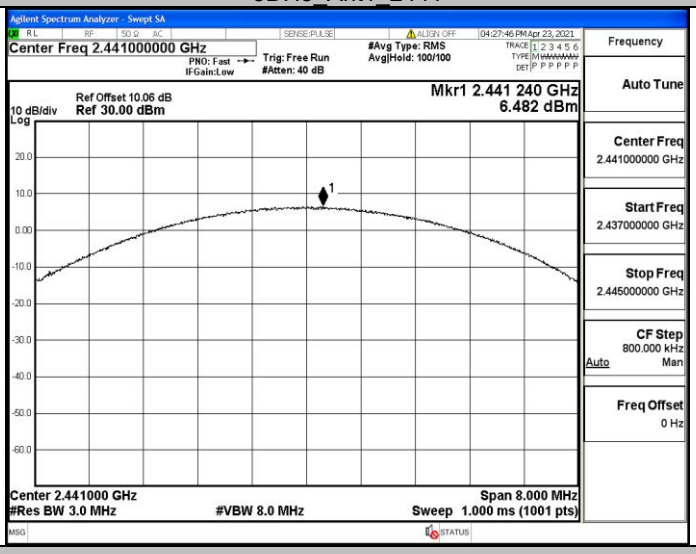
2DH5_Ant1_2480



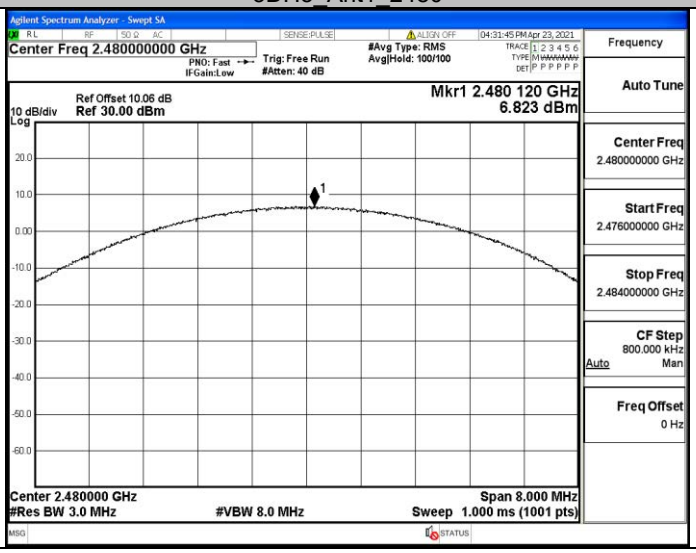
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

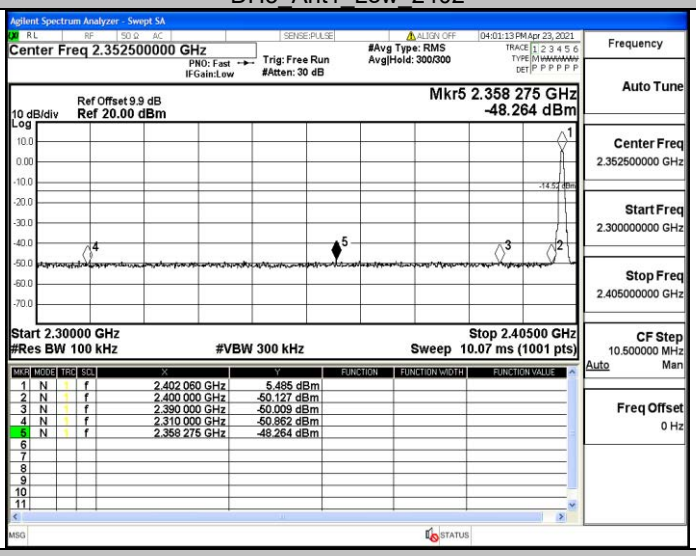


A.6 Band-edge for RF Conducted Emissions

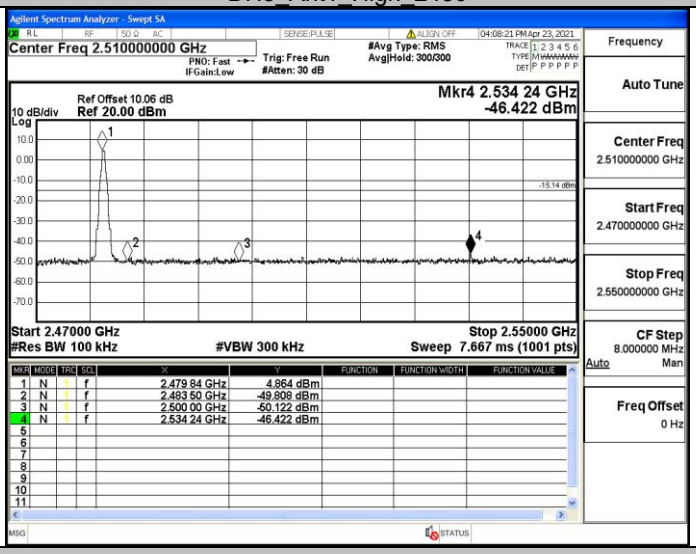
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.49	-48.26	<=-14.52	PASS
		High	2480	4.86	-46.42	<=-15.14	PASS
		Low	Hop_2402	6.40	-47.63	<=-13.61	PASS
		High	Hop_2480	6.83	-47.29	<=-13.17	PASS
2DH5	Ant1	Low	2402	5.60	-48.25	<=-14.4	PASS
		High	2480	6.08	-47.2	<=-13.92	PASS
		Low	Hop_2402	6.84	-47.87	<=-13.16	PASS
		High	Hop_2480	7.87	-46.75	<=-12.13	PASS
3DH5	Ant1	Low	2402	5.62	-48.27	<=-14.38	PASS
		High	2480	6.17	-47.35	<=-13.83	PASS
		Low	Hop_2402	5.79	-48	<=-14.21	PASS
		High	Hop_2480	7.90	-47.35	<=-12.1	PASS

Test Graph

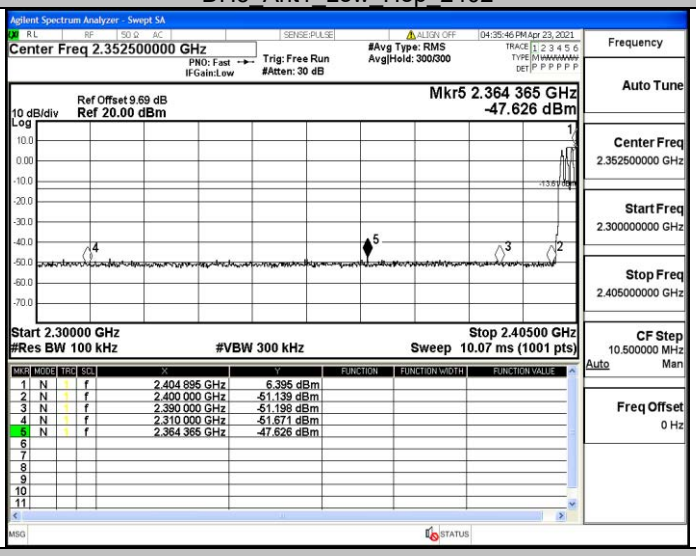
DH5_Ant1_Low_2402



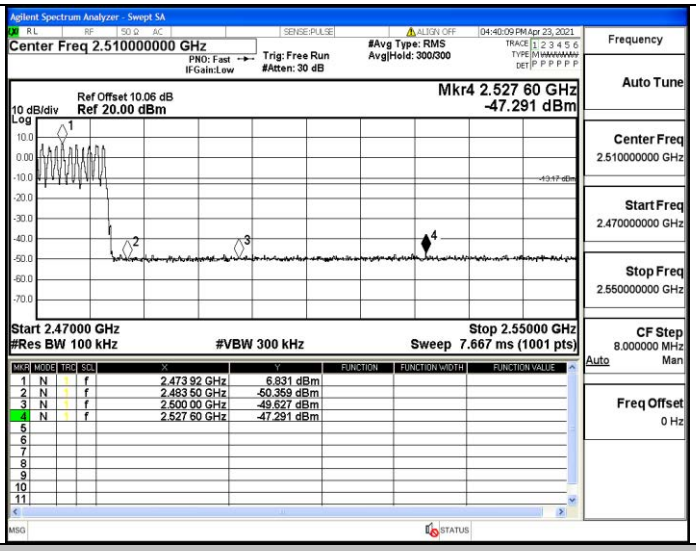
DH5_Ant1_High_2480



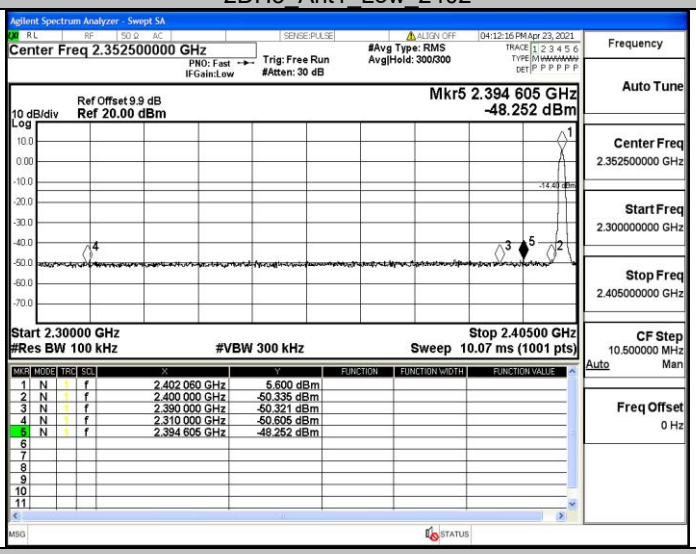
DH5_Ant1_Low_Hop_2402



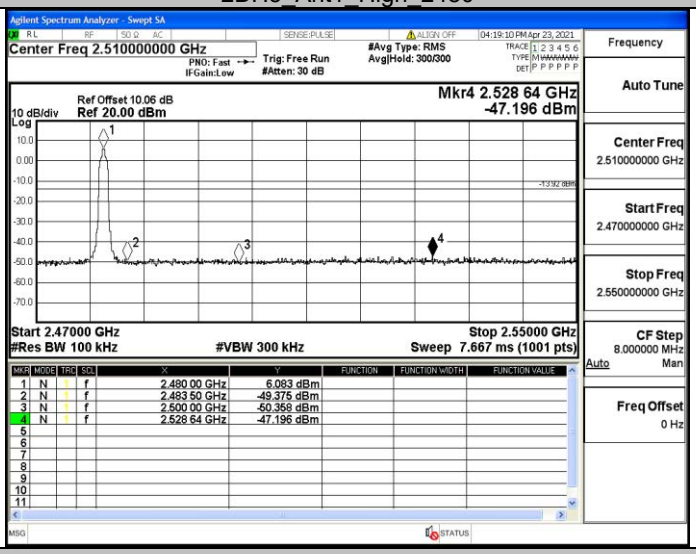
DH5_Ant1_High_Hop_2480



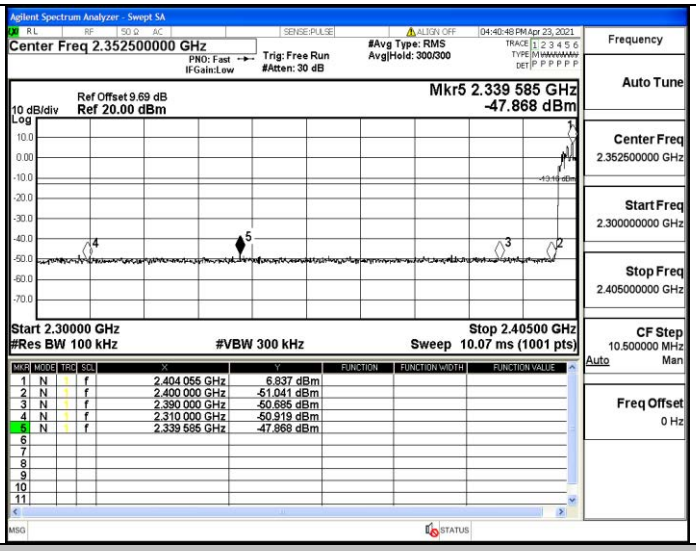
2DH5_Ant1_Low_2402



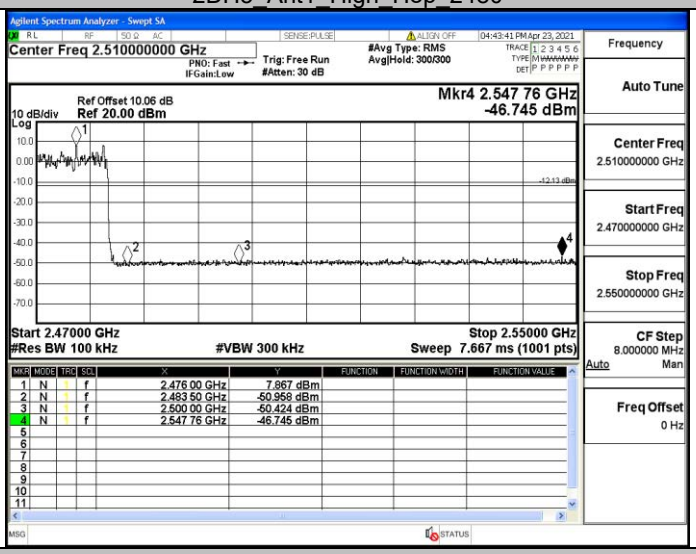
2DH5_Ant1_High_2480



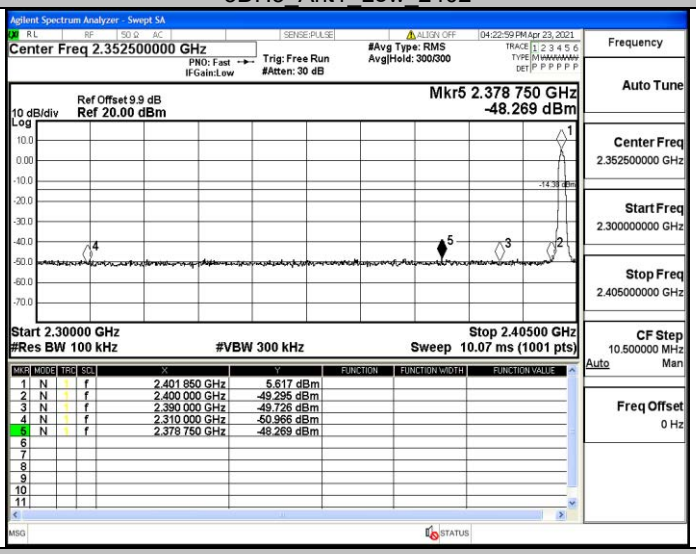
2DH5_Ant1_Low_Hop_2402



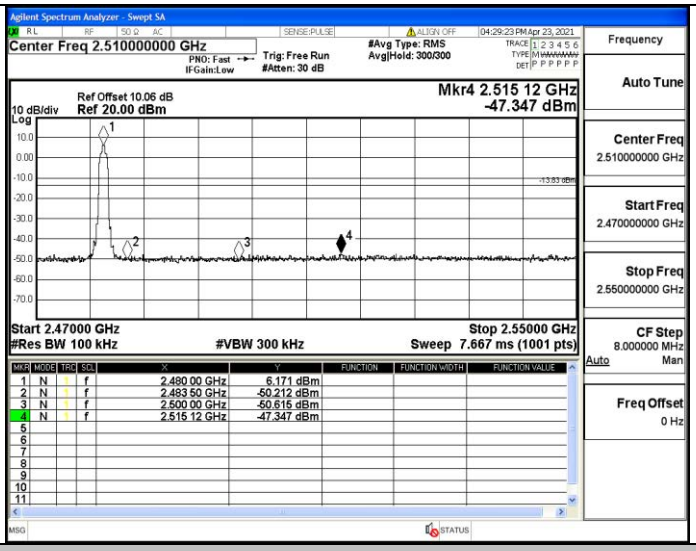
2DH5_Ant1_High_Hop_2480



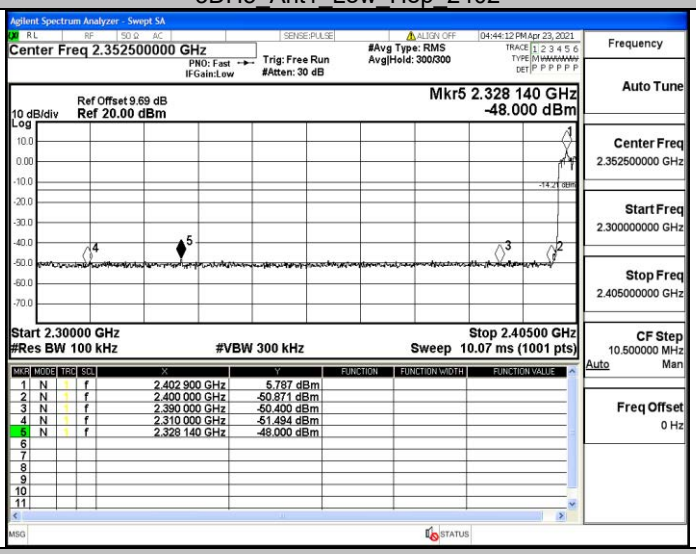
3DH5_Ant1_Low_2402



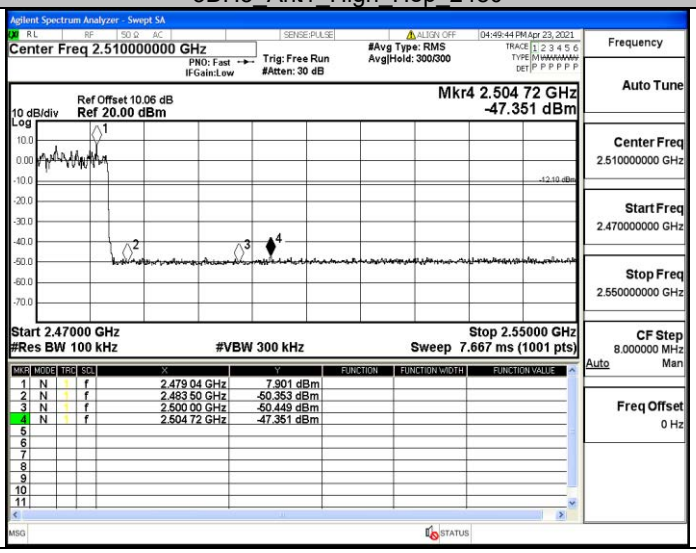
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



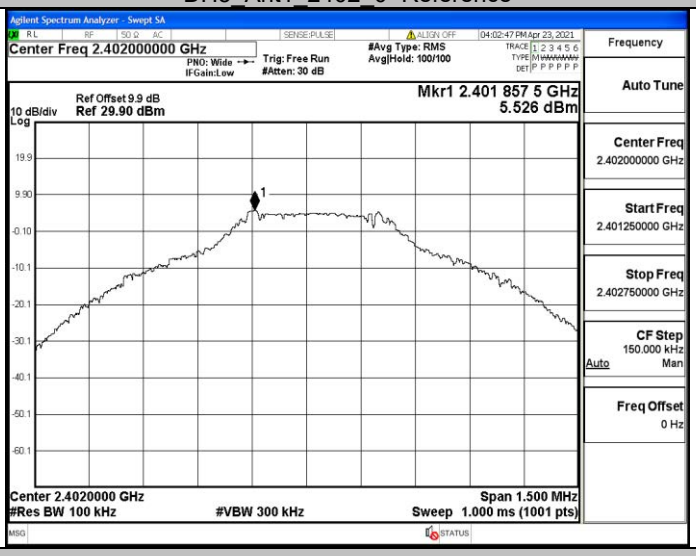
3DH5_Ant1_High_Hop_2480



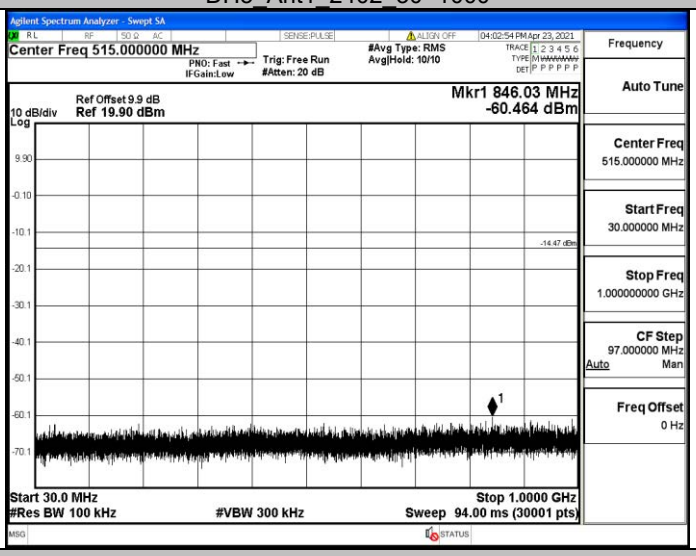
A.7 RF Conducted Spurious Emissions

Test Graph

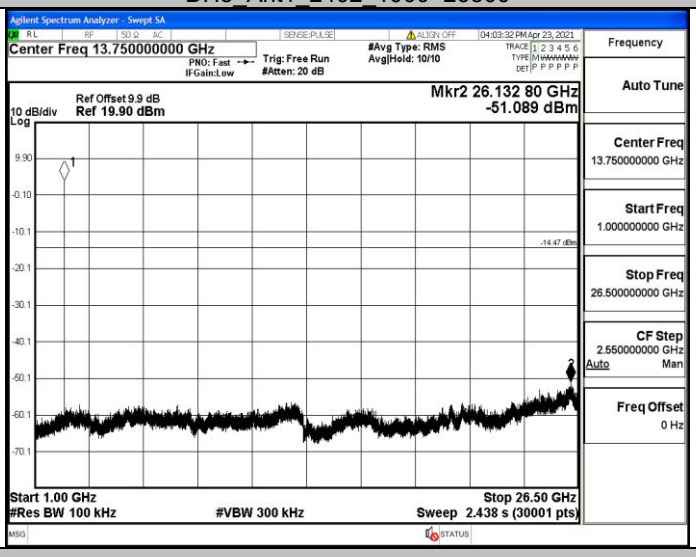
DH5_Ant1_2402_0~Reference



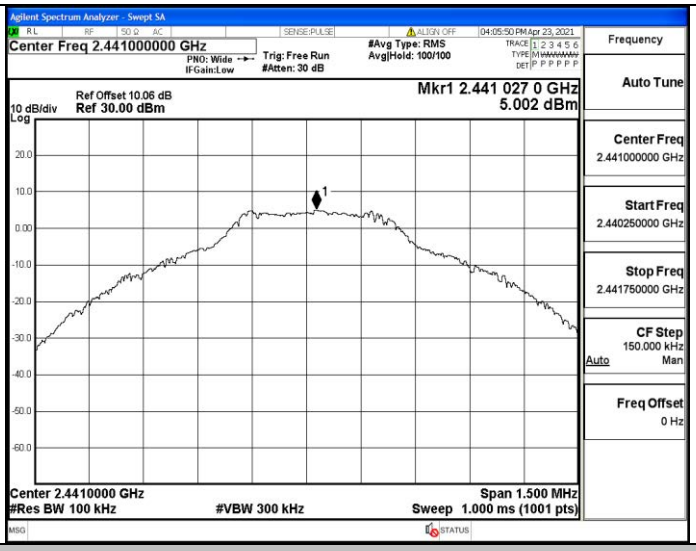
DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



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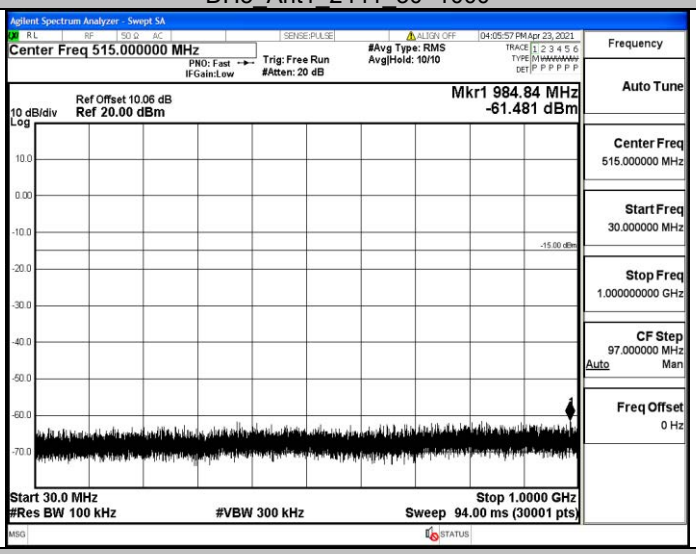

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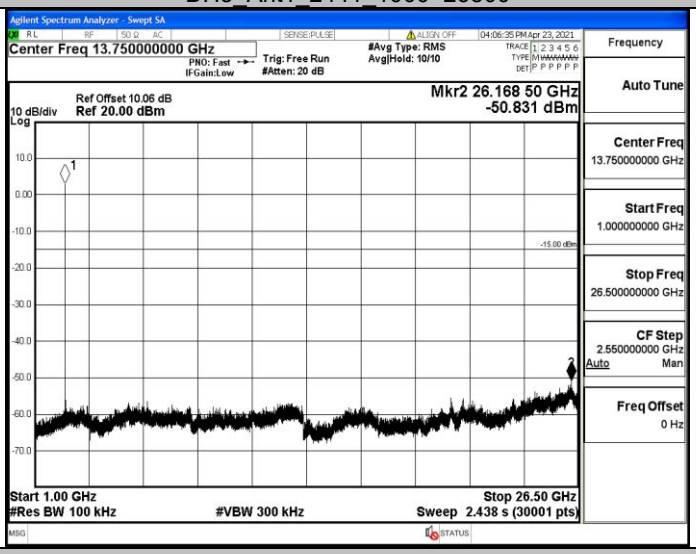

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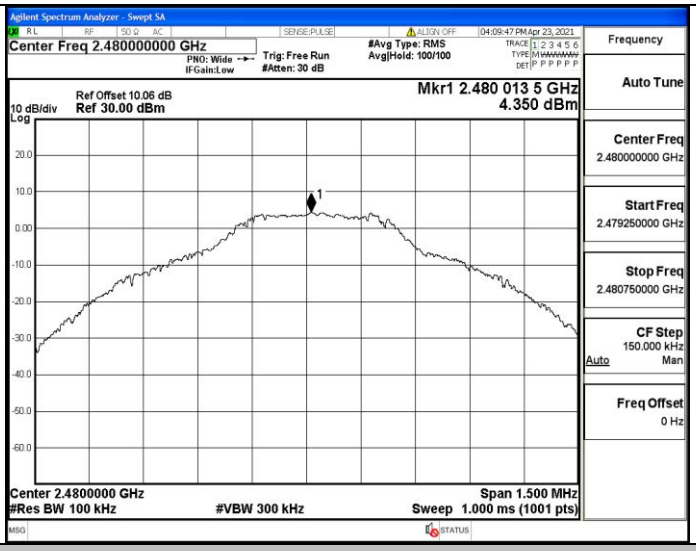

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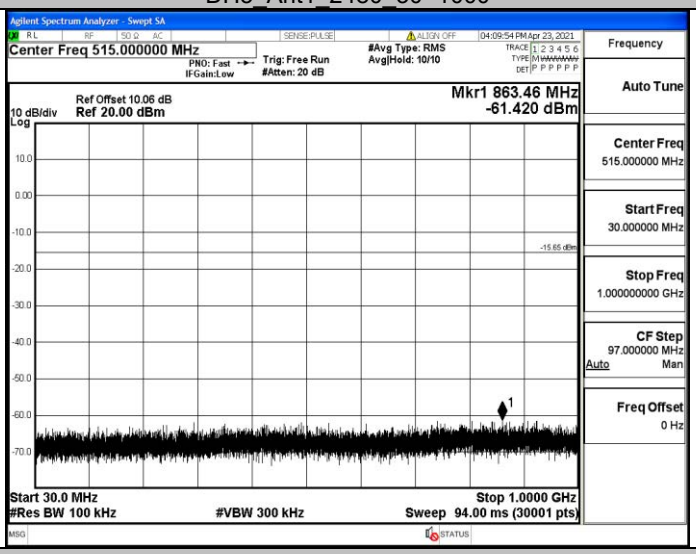

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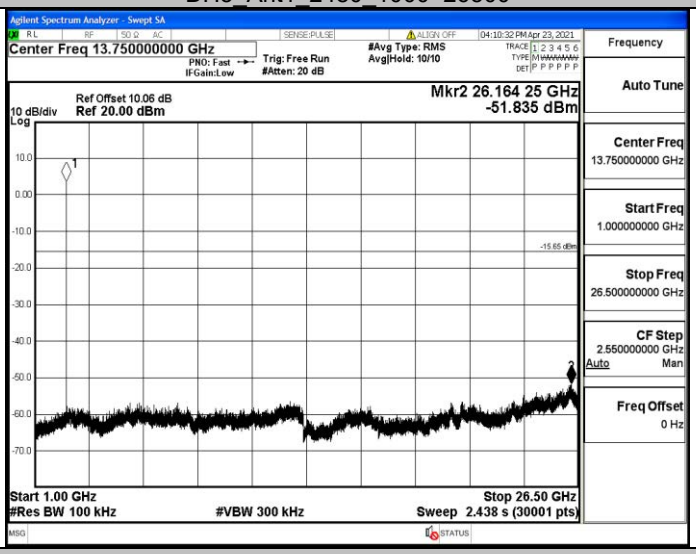

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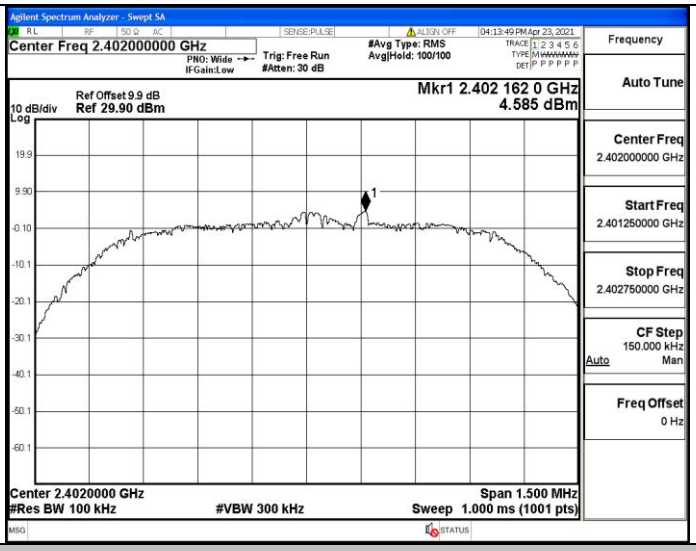

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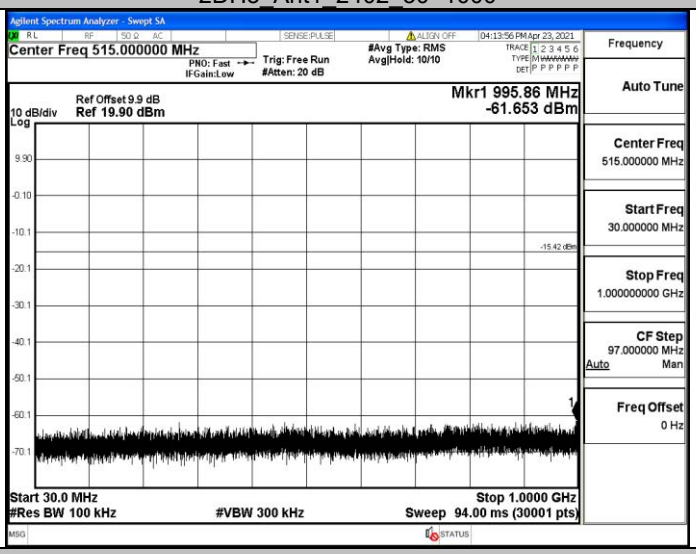

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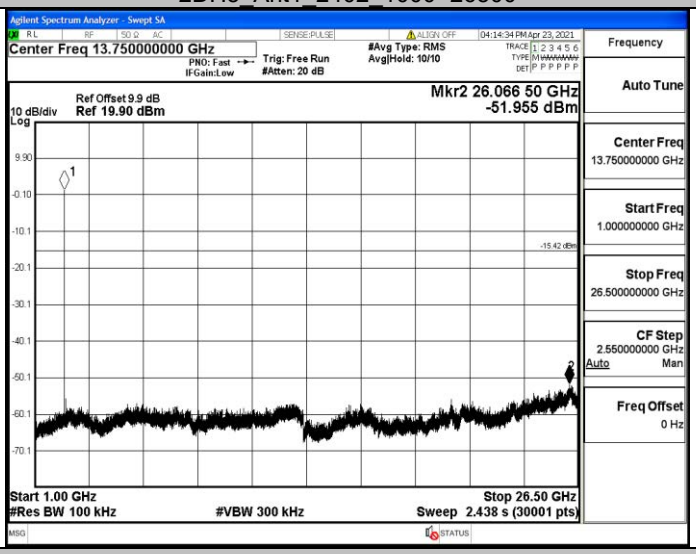

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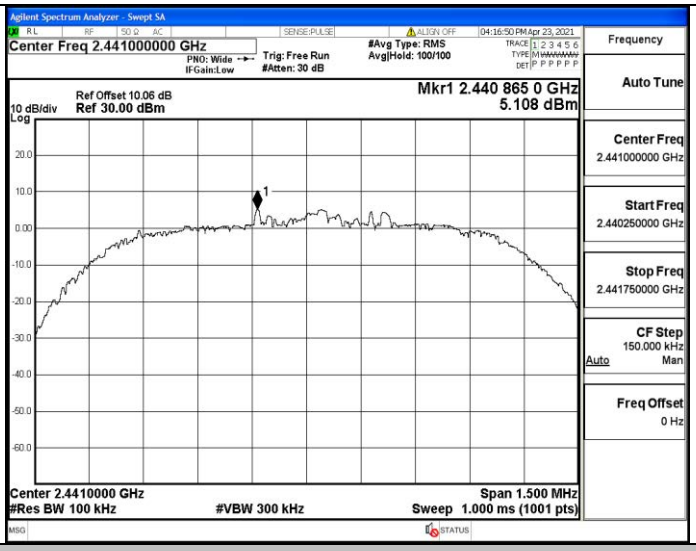

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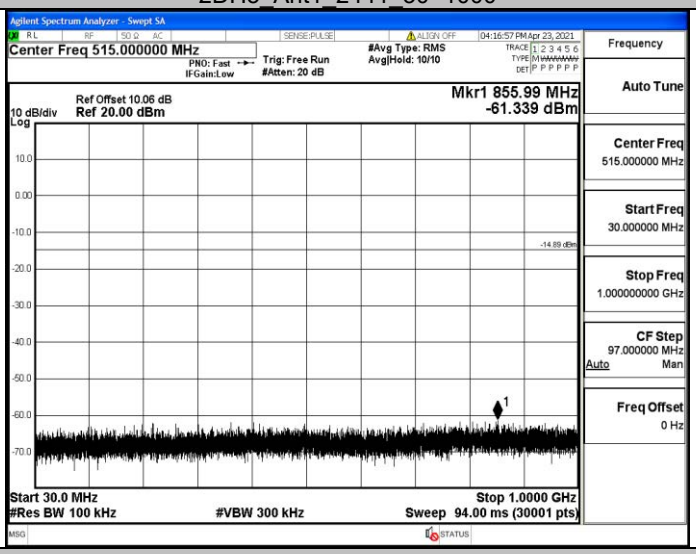

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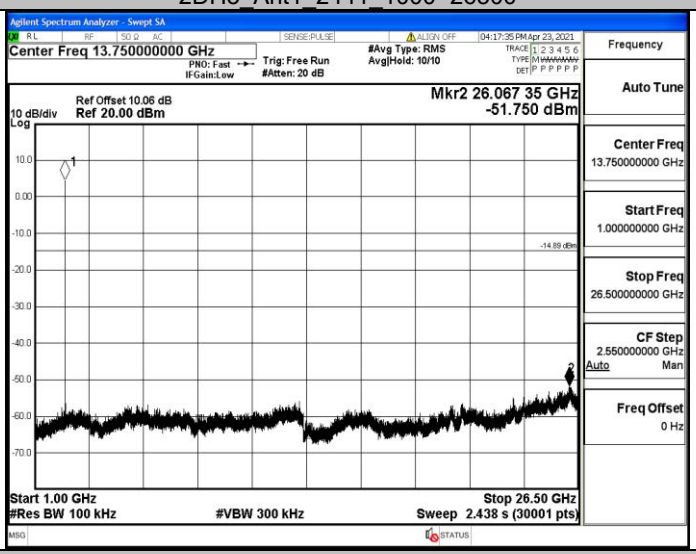

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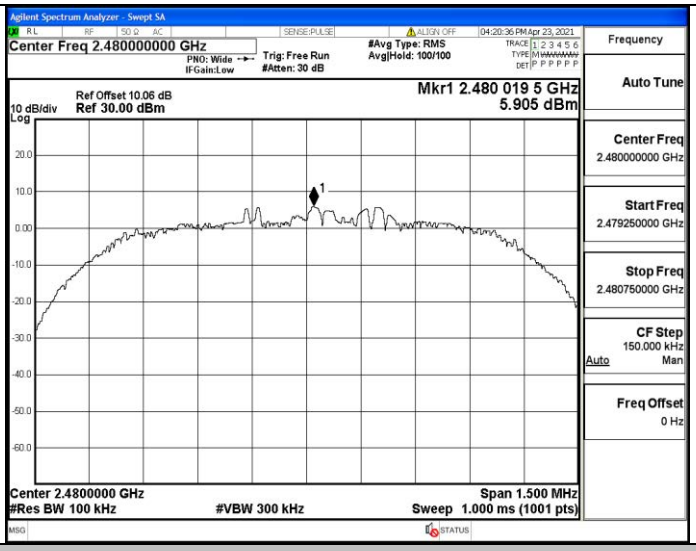

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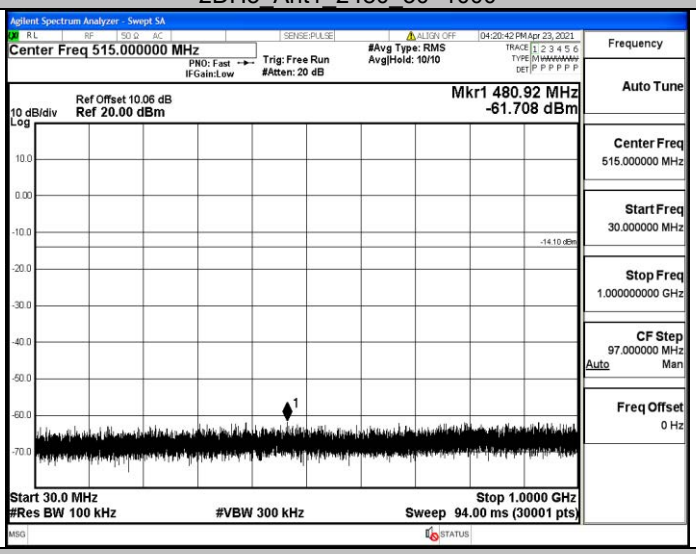

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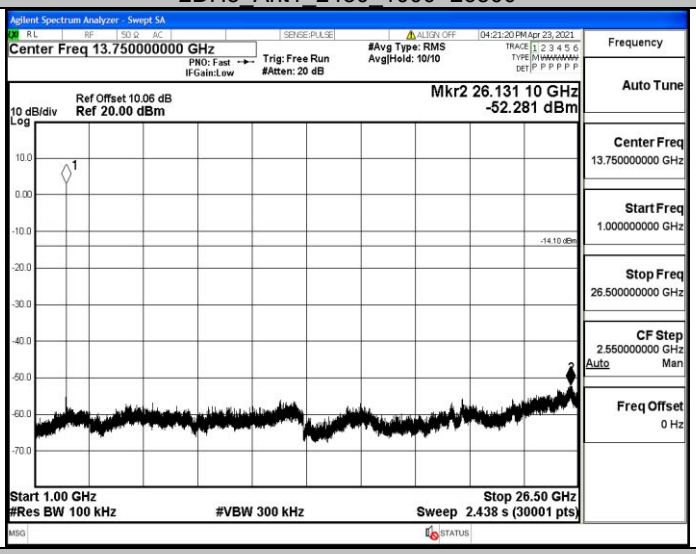

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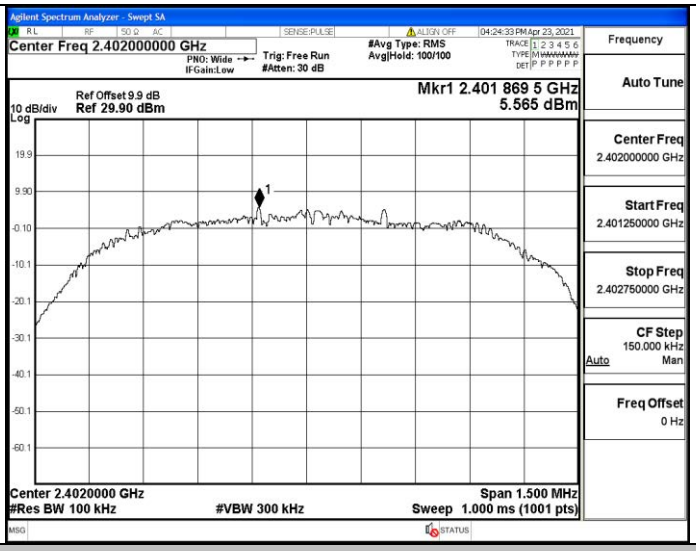

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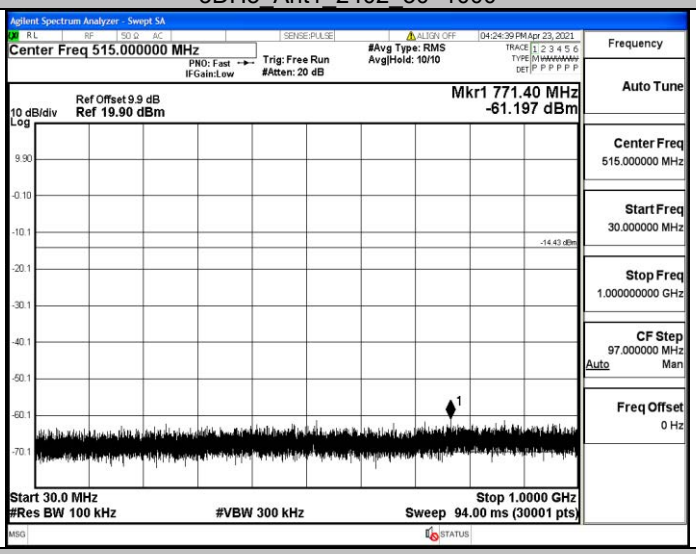

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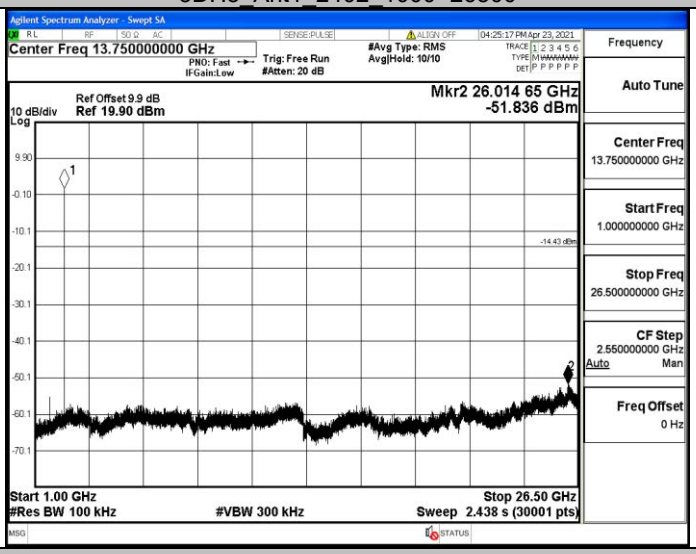

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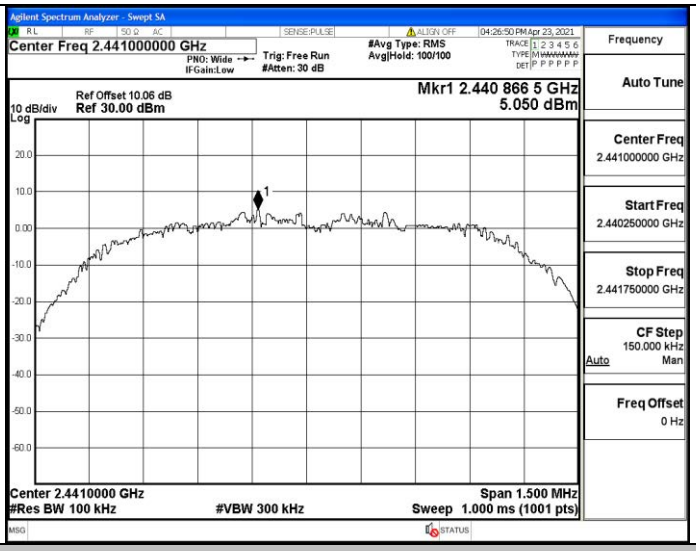

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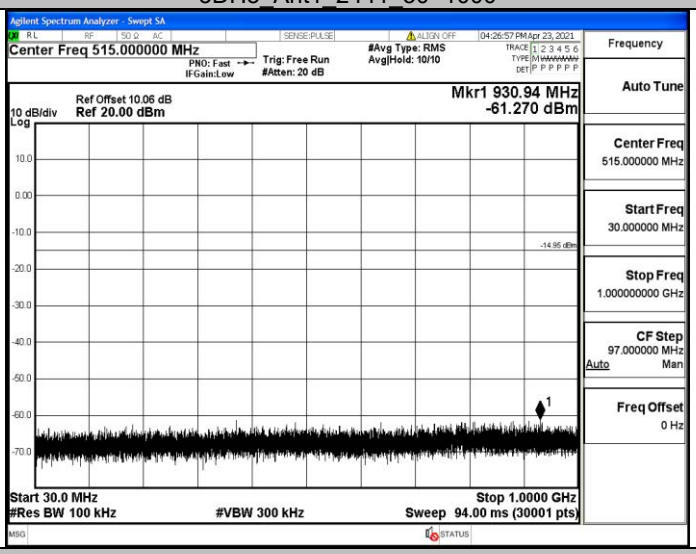

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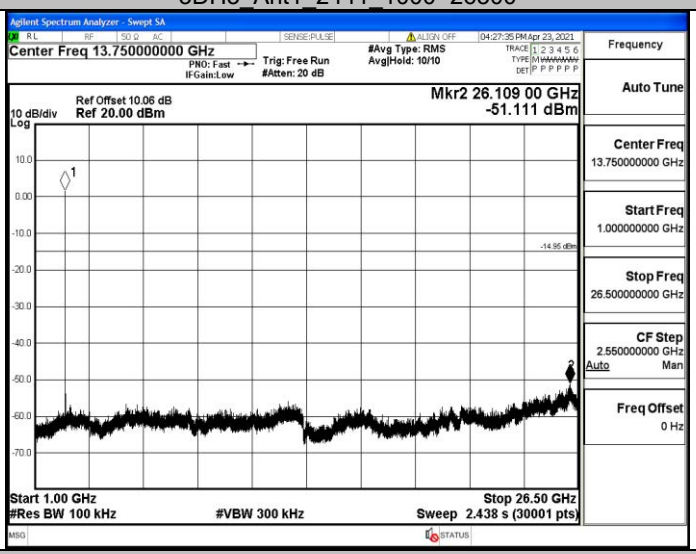

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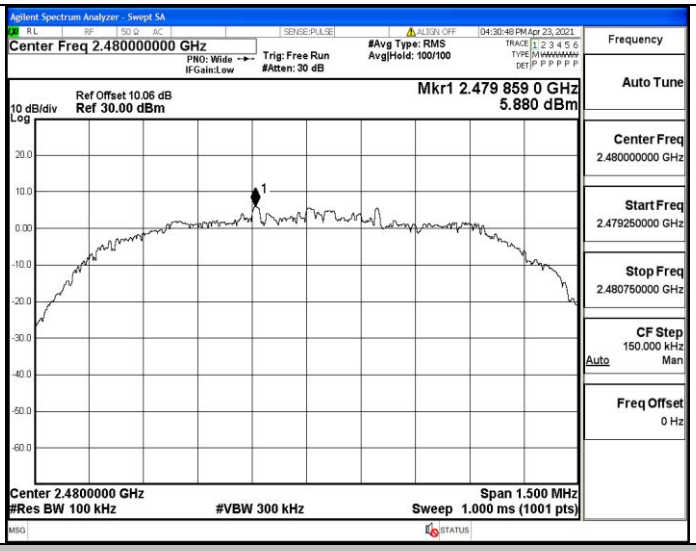

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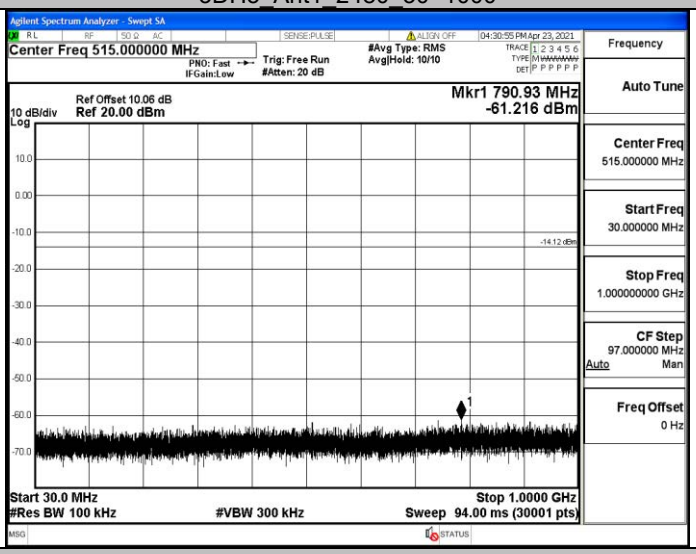

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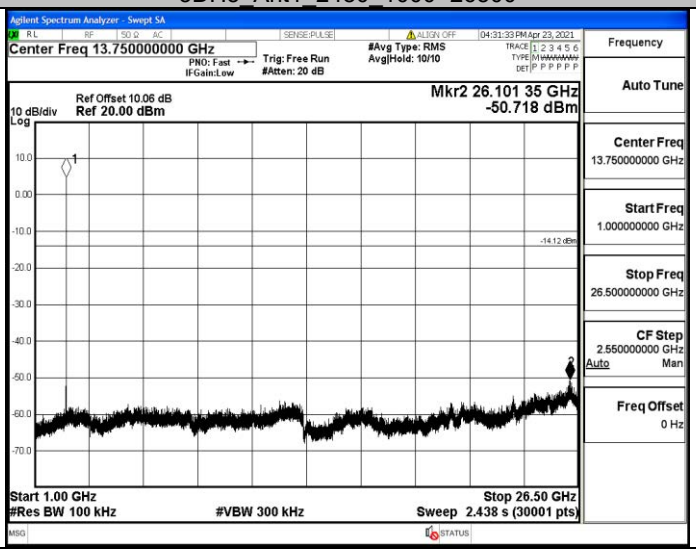


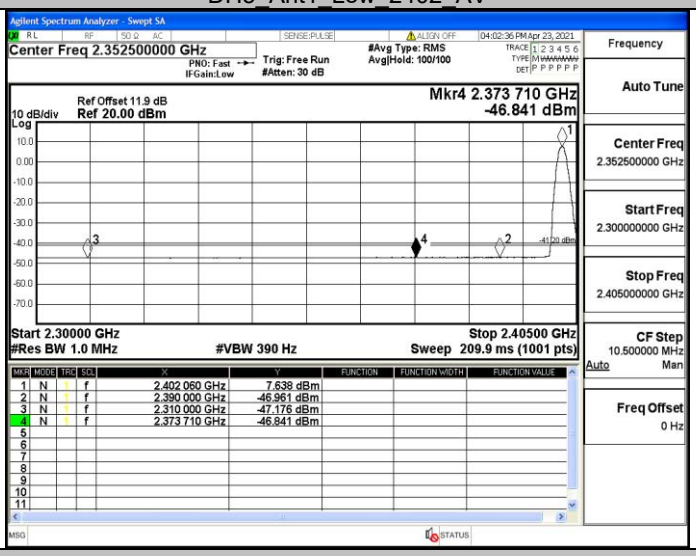
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.18	<=-41.20	PASS
				AV	2373.710	-46.84	<=-41.20	PASS
				AV	2390.000	-46.96	<=-41.20	PASS
				Peak	2310.000	-40.8	<=-21.20	PASS
				Peak	2379.695	-36.14	<=-21.20	PASS
				Peak	2390.000	-39.46	<=-21.20	PASS
		High	2480	AV	2483.500	-45.91	<=-41.20	PASS
				AV	2483.520	-45.9	<=-41.20	PASS
				AV	2500.000	-46.18	<=-41.20	PASS
				Peak	2483.500	-38.56	<=-21.20	PASS
				Peak	2492.000	-36.22	<=-21.20	PASS
				Peak	2500.000	-39.62	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-47.12	<=-41.20	PASS
				AV	2388.935	-46.81	<=-41.20	PASS
				AV	2390.000	-46.92	<=-41.20	PASS
				Peak	2310.000	-40.49	<=-21.20	PASS
				Peak	2328.455	-36.96	<=-21.20	PASS
				Peak	2390.000	-38.72	<=-21.20	PASS
		High	2480	AV	2483.500	-45.18	<=-41.20	PASS
				AV	2500.000	-46.16	<=-41.20	PASS
				Peak	2483.500	-39.78	<=-21.20	PASS
				Peak	2498.000	-36.92	<=-21.20	PASS
				Peak	2500.000	-39.2	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-47.19	<=-41.20	PASS
				AV	2387.465	-46.73	<=-41.20	PASS
				AV	2390.000	-46.97	<=-41.20	PASS
				Peak	2310.000	-40.24	<=-21.20	PASS
				Peak	2367.830	-37.04	<=-21.20	PASS
				Peak	2390.000	-39.53	<=-21.20	PASS
		High	2480	AV	2483.500	-45.08	<=-41.20	PASS
				AV	2500.000	-46.1	<=-41.20	PASS
				Peak	2483.500	-37.61	<=-21.20	PASS
				Peak	2490.960	-36.79	<=-21.20	PASS
				Peak	2500.000	-38.38	<=-21.20	PASS

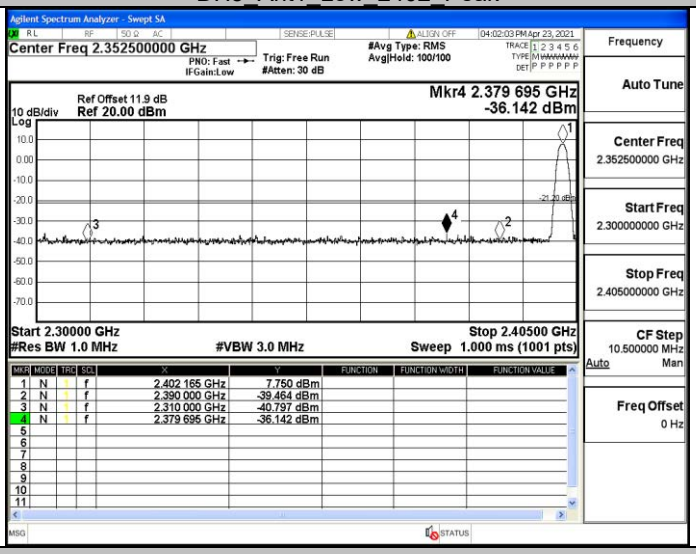
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

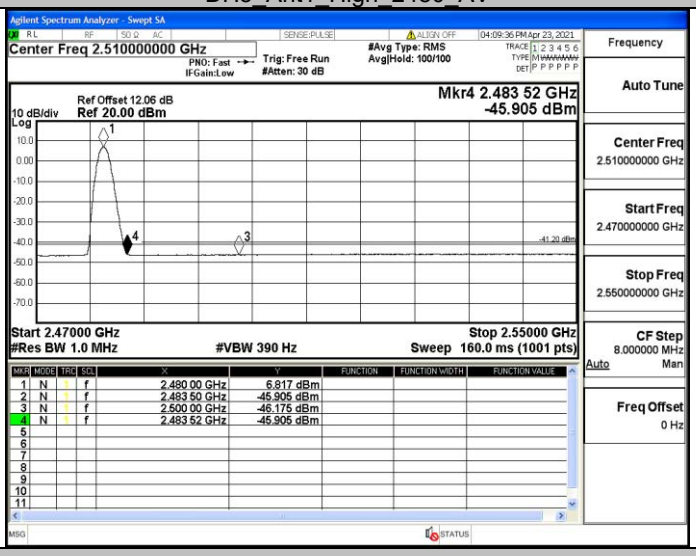
DH5_Ant1_Low_2402_AV



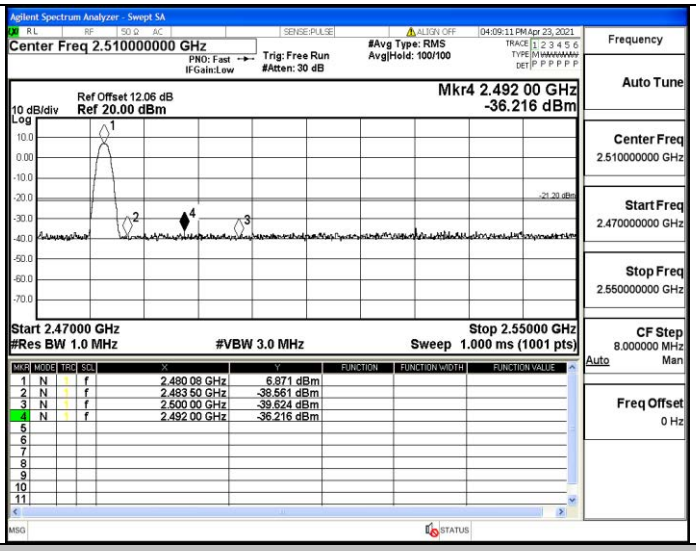
DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



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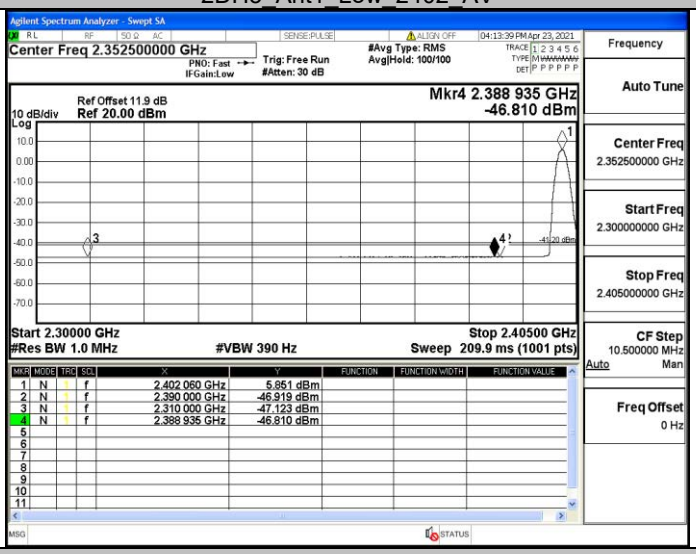

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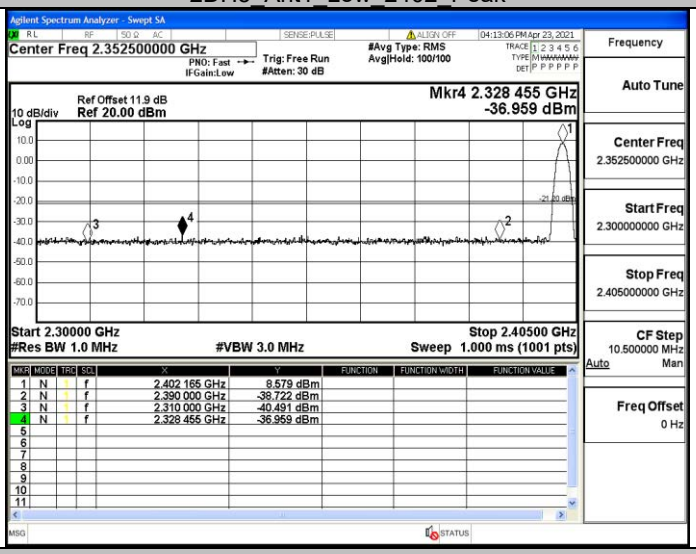

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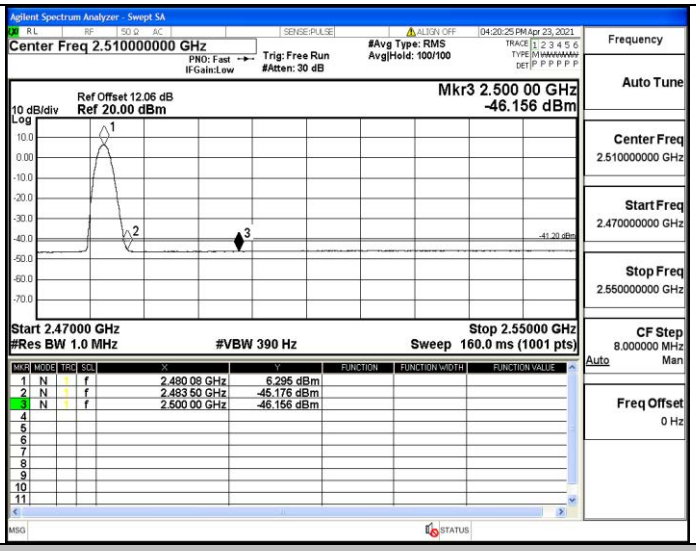

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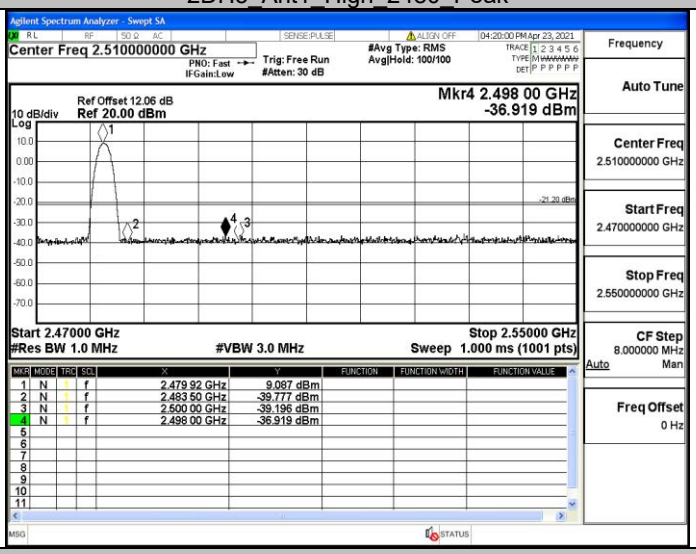

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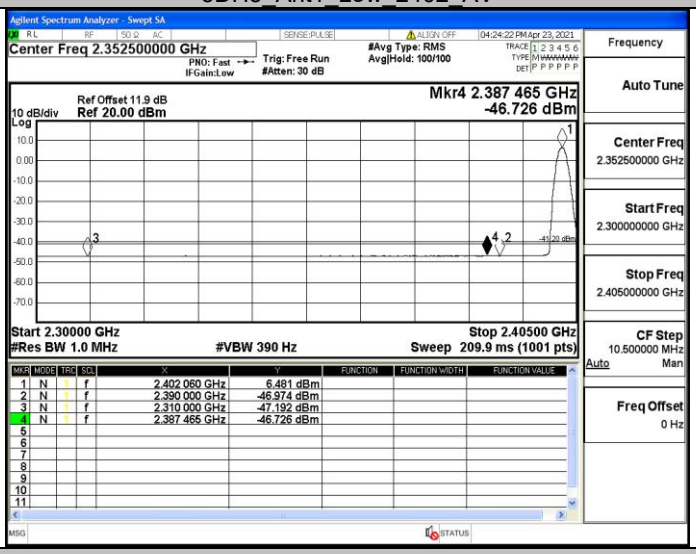

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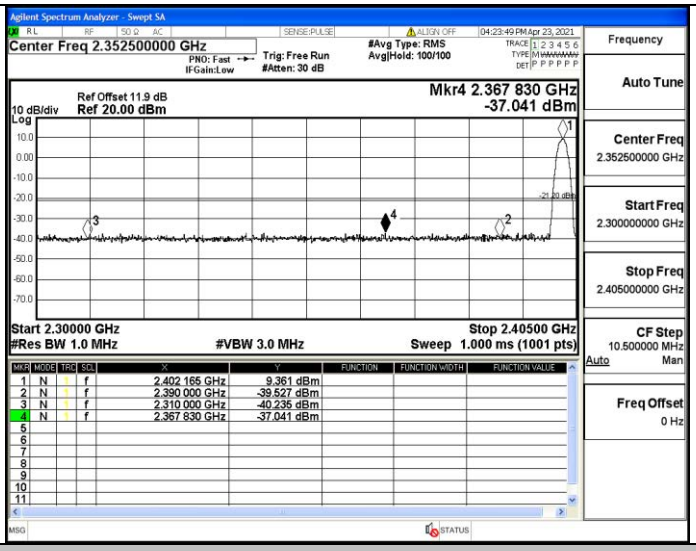

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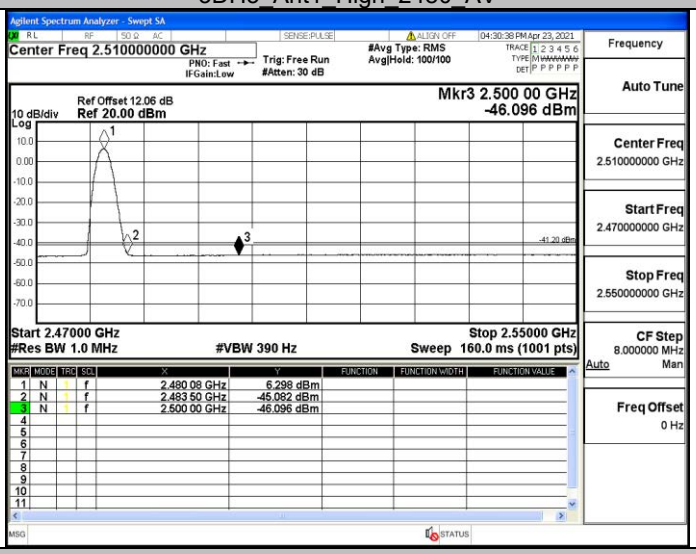
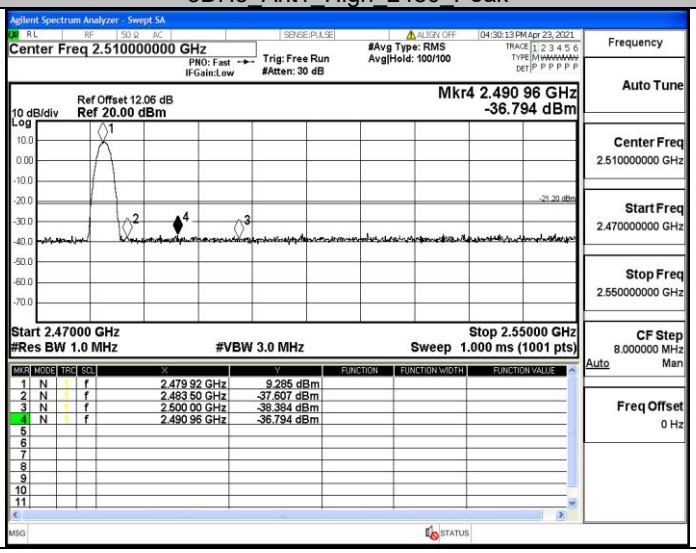
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