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

Product Name: Superheer SH-NT3

Trade Mark: Superheer

Test Model: NT3

FCC ID: 2AWVJ-NT3

Environmental Conditions

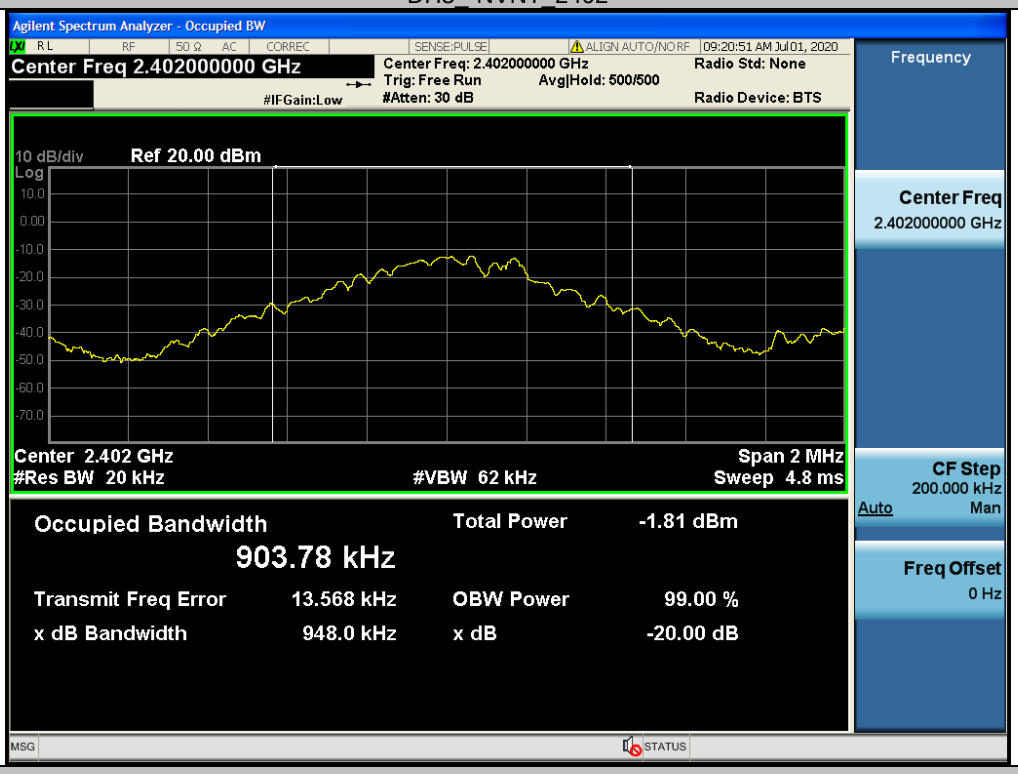
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

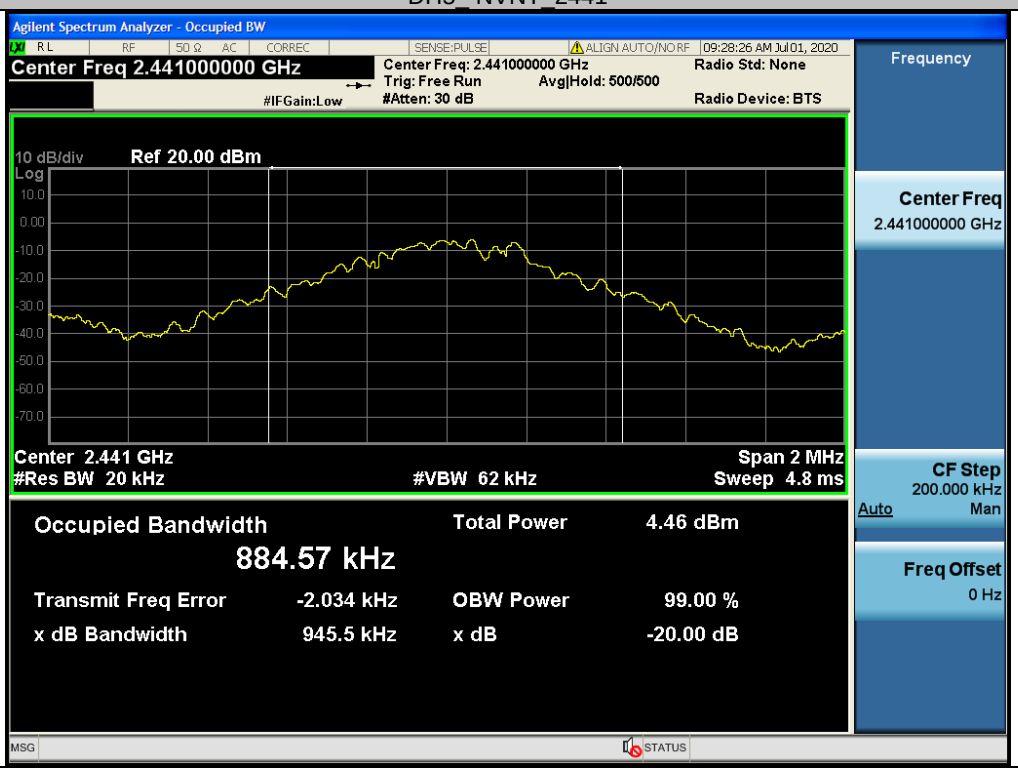
Type	Frequency(MHz)	Nominal Bandwidth(MHz)	Test Condition	20dB Spectrum Bandwidth(MHz)	Conclusion
DH5	2402	1	NVNT	0.948	No Limit
DH5	2441	1	NVNT	0.946	No Limit
DH5	2480	1	NVNT	0.944	No Limit
2DH5	2402	1	NVNT	1.241	No Limit
2DH5	2441	1	NVNT	1.236	No Limit
2DH5	2480	1	NVNT	1.232	No Limit
3DH5	2402	1	NVNT	1.244	No Limit
3DH5	2441	1	NVNT	1.247	No Limit
3DH5	2480	1	NVNT	1.248	No Limit

Test Graph

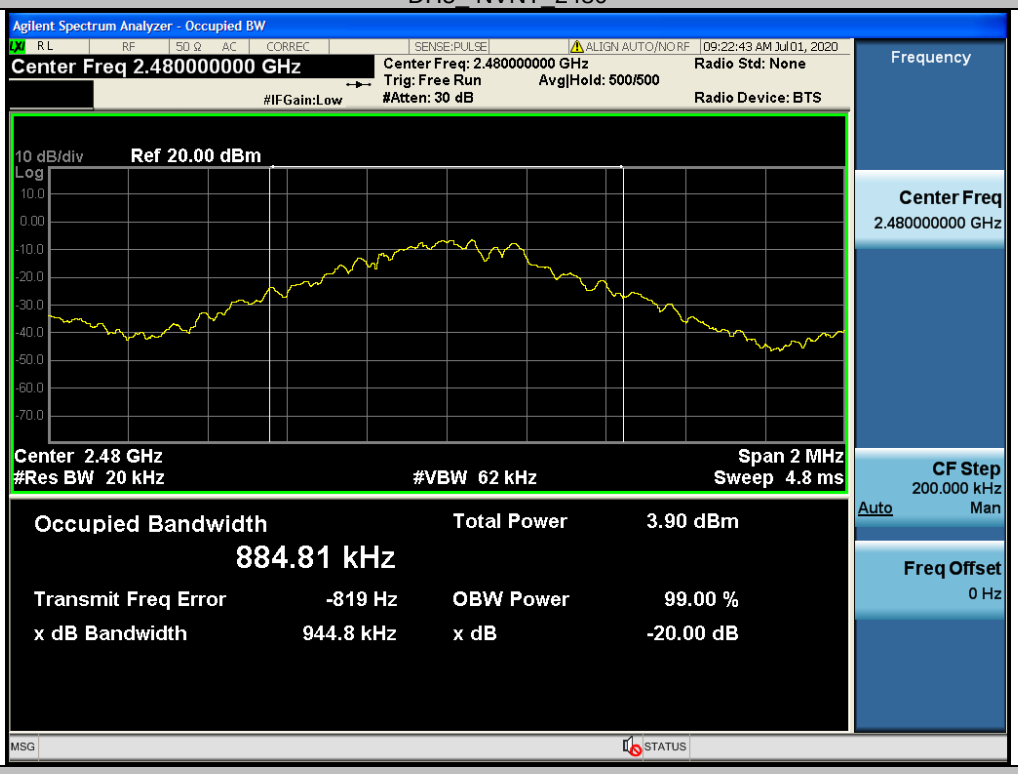
DH5_NVNT_2402



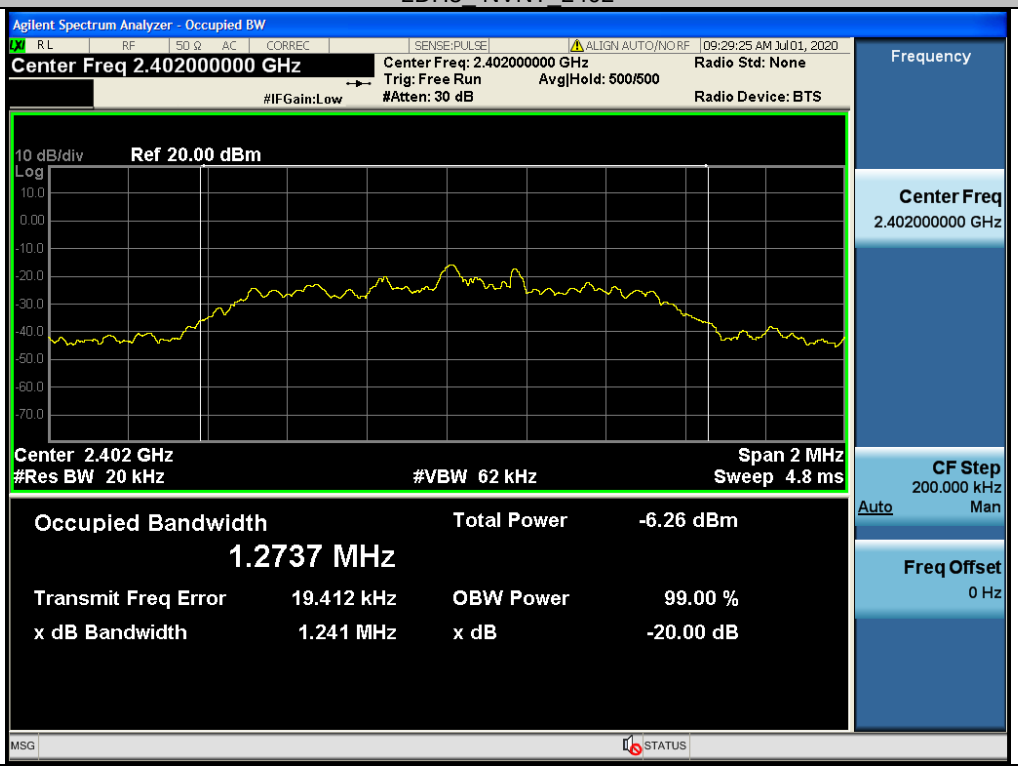
DH5_NVNT_2441



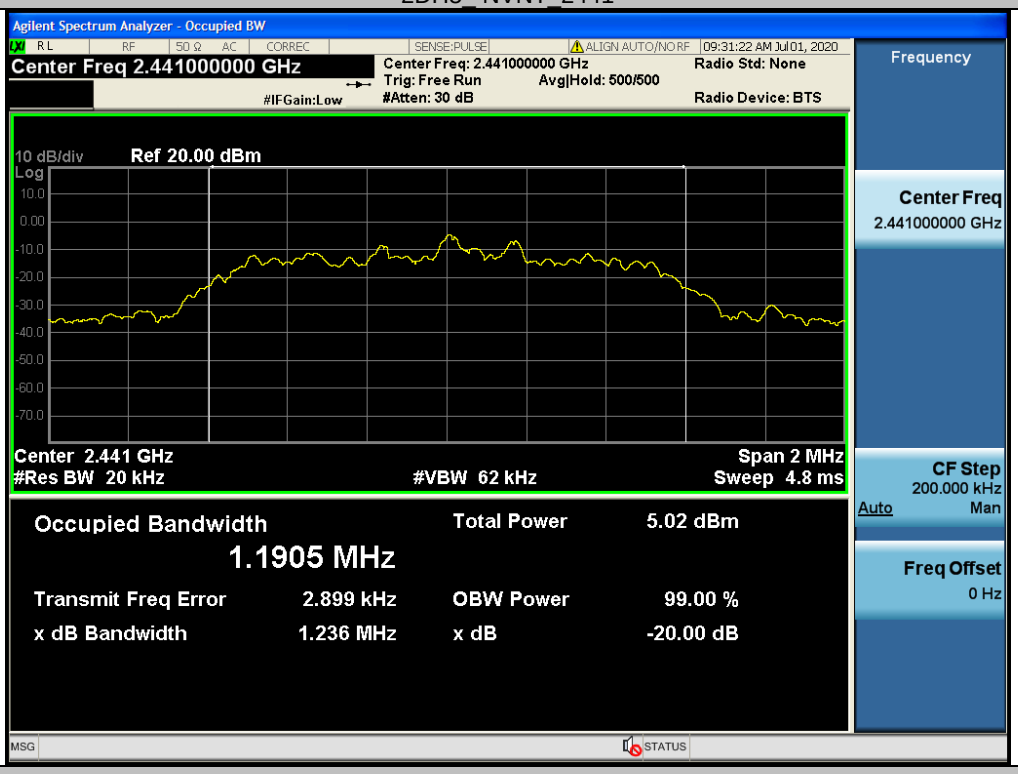
DH5_NVNT_2480



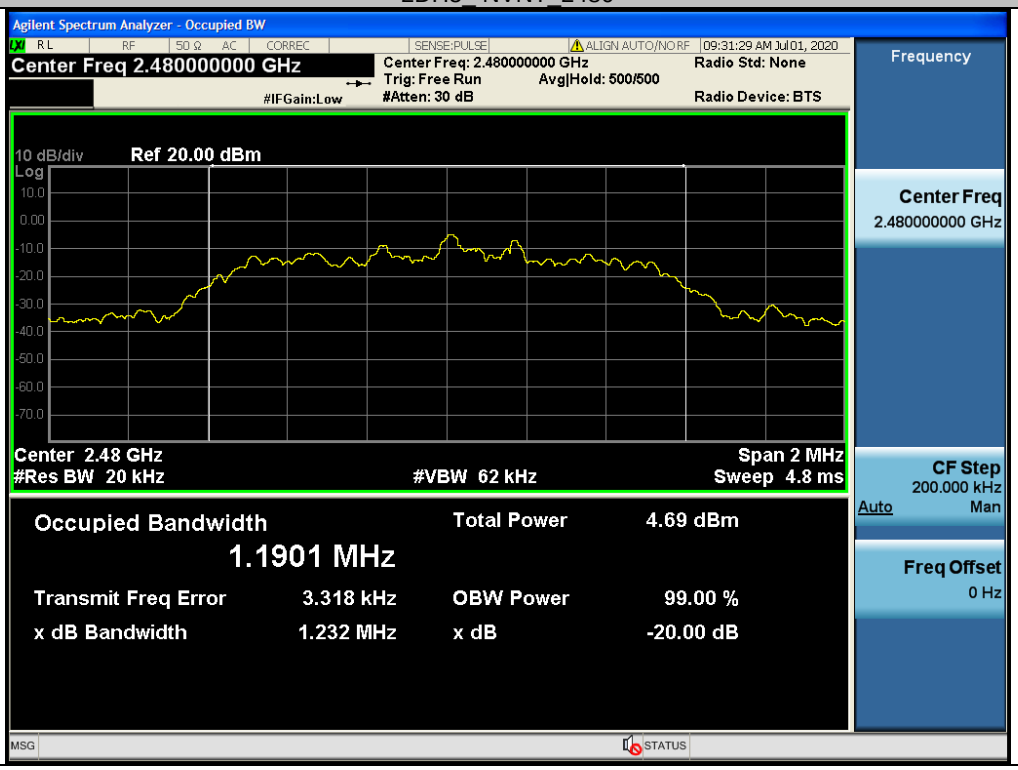
2DH5_NVNT_2402



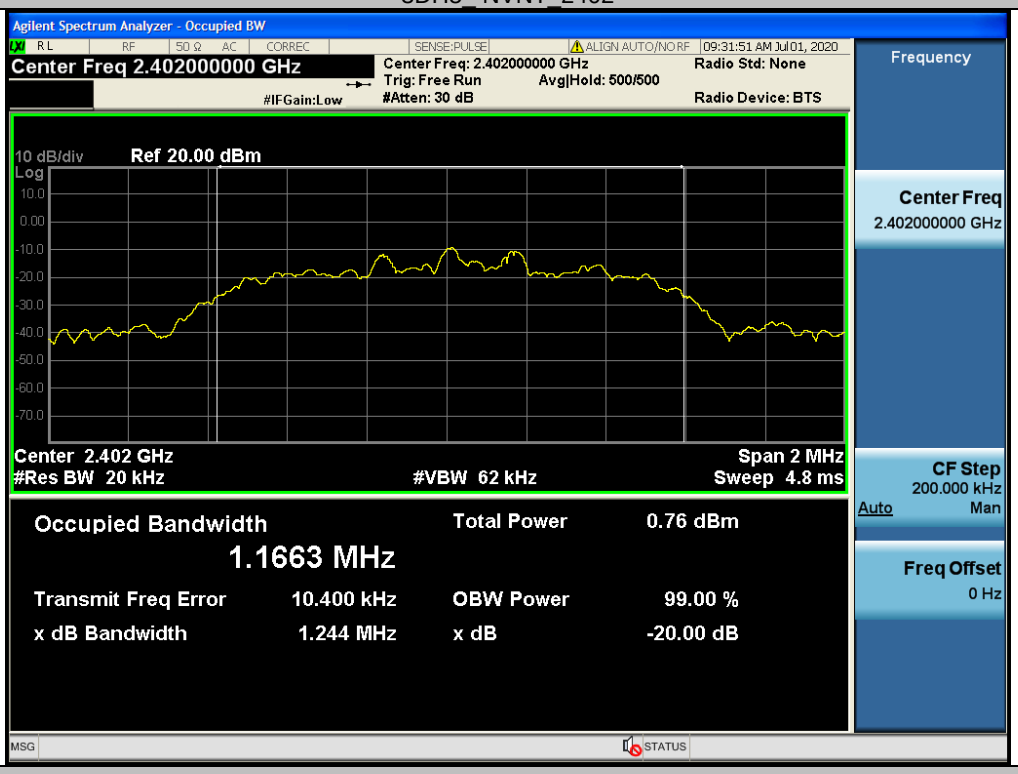
2DH5_NVNT_2441



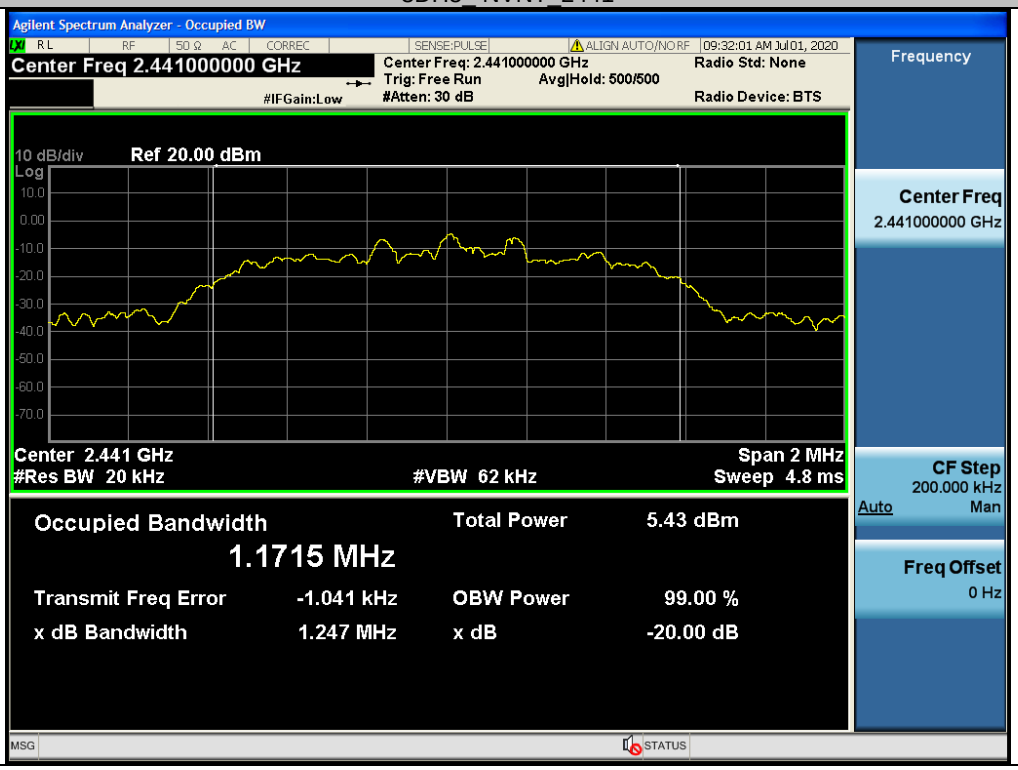
2DH5_NVNT_2480



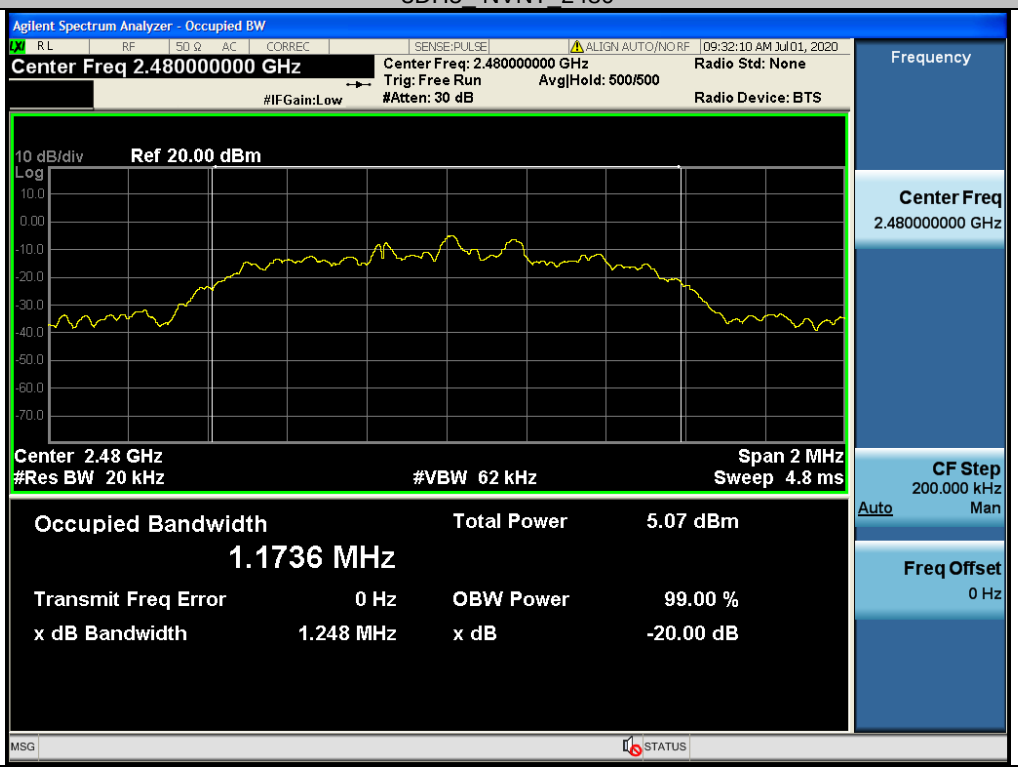
3DH5_NVNT_2402



3DH5_NVNT_2441



3DH5_NVNT_2480

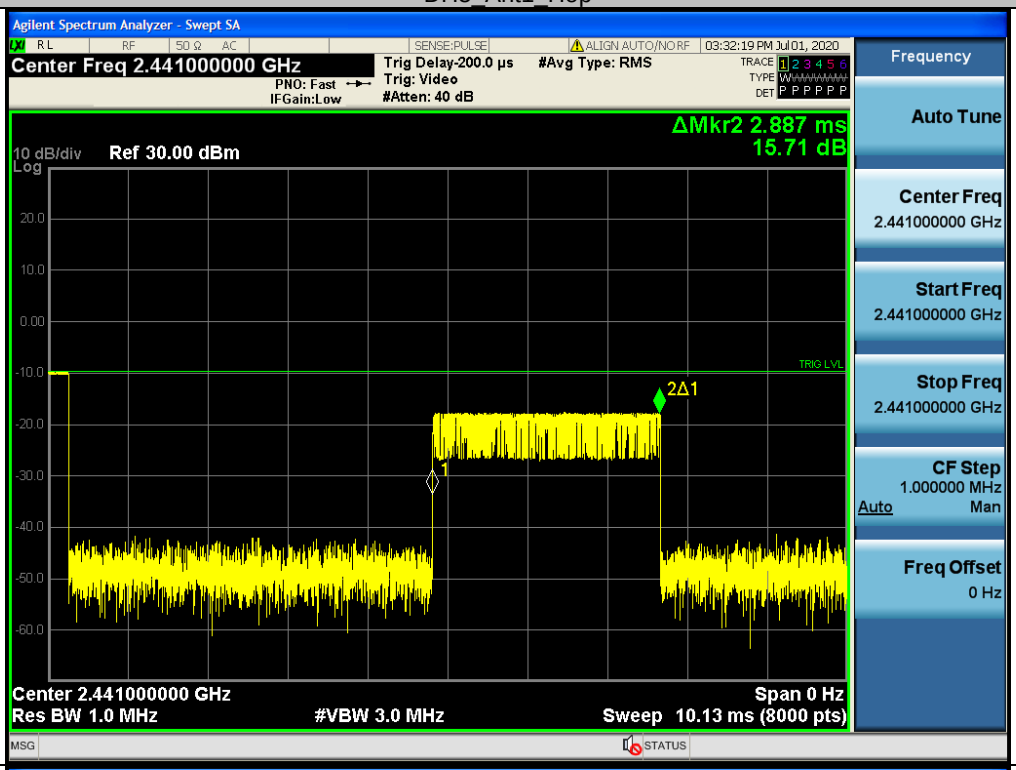


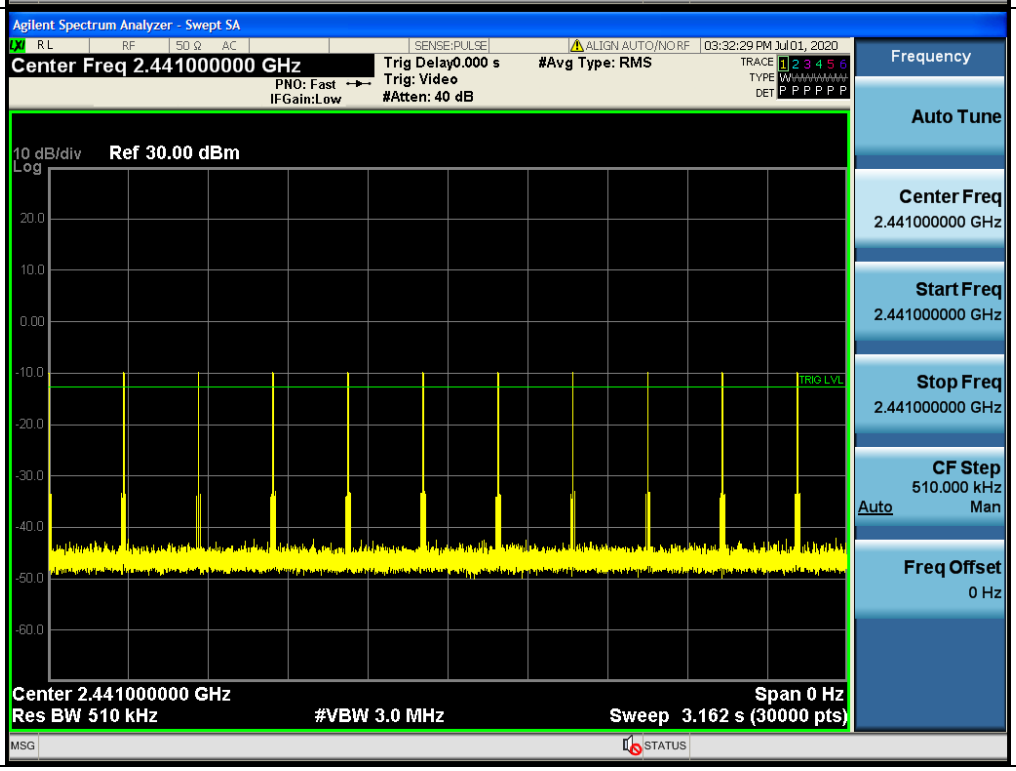
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS
2DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS
3DH5	Ant1	Hop	2.90	110	0.319	<=0.4	PASS

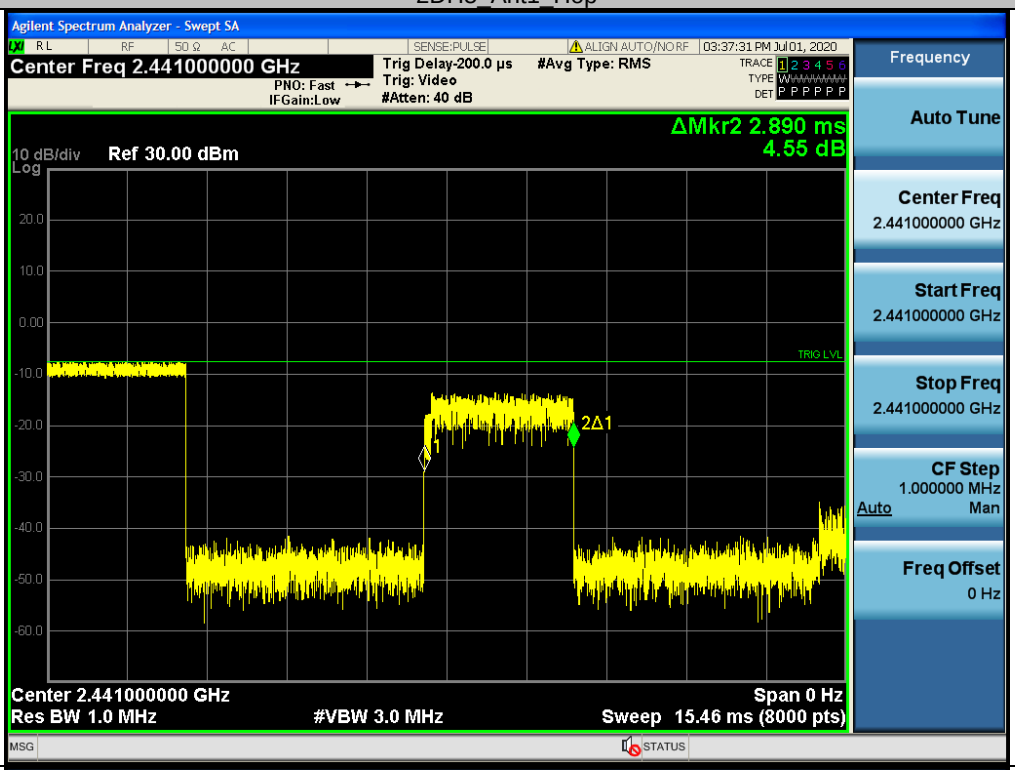
Test Graph

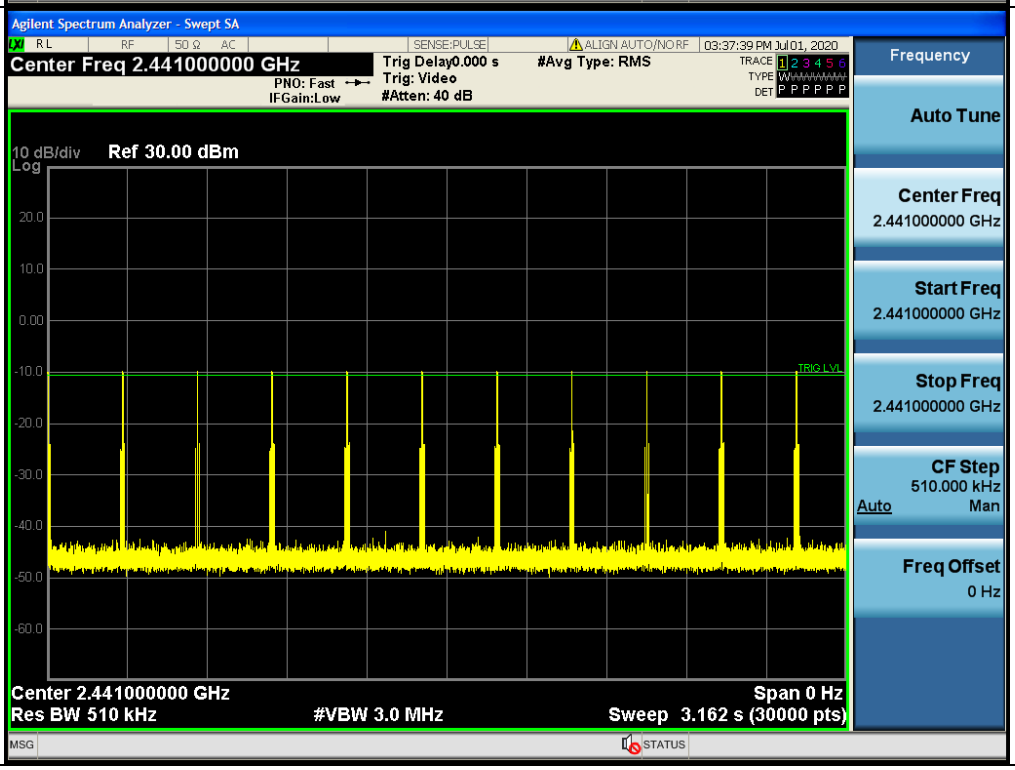
DH5_Ant1_Hop



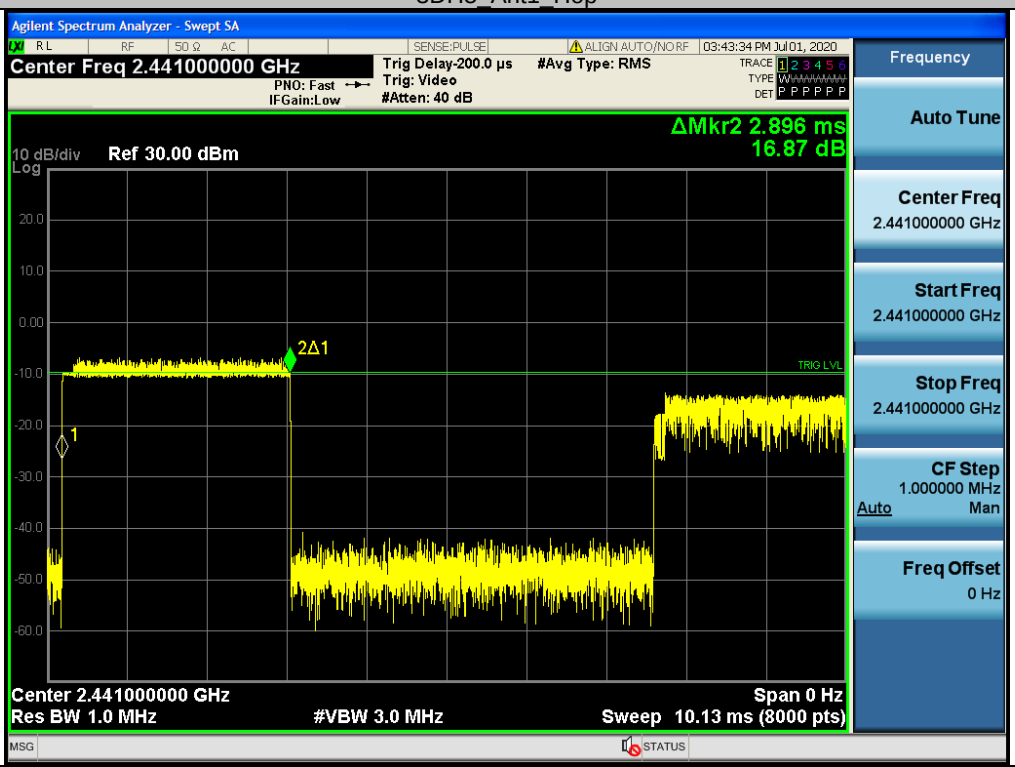


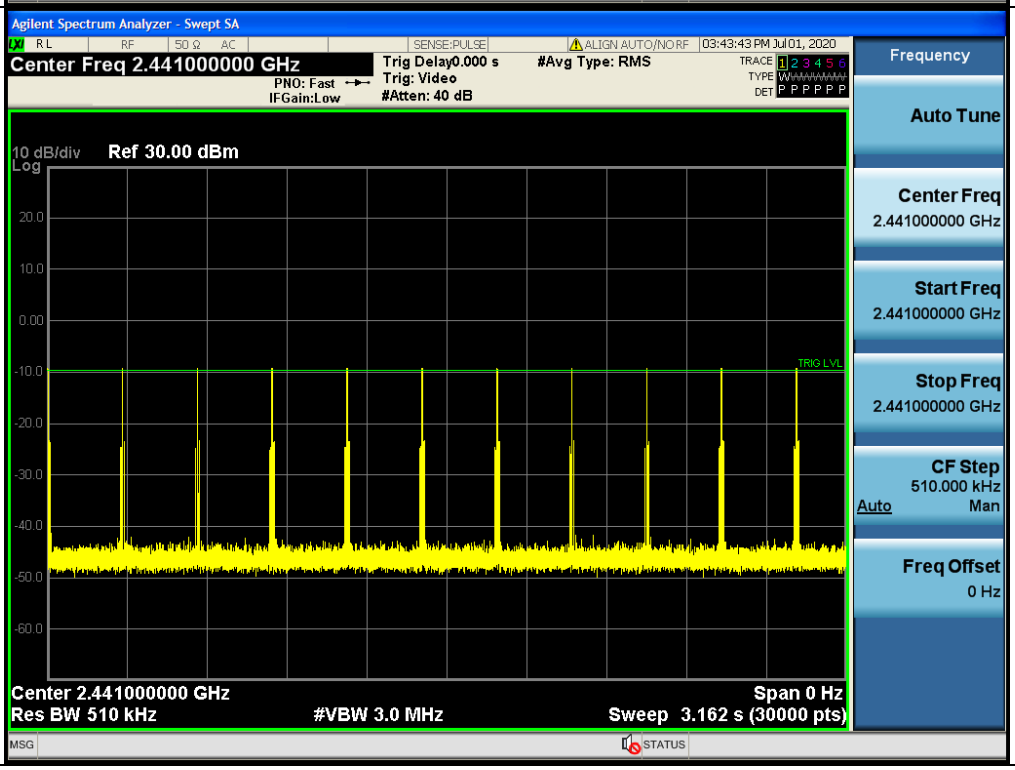
2DH5_Ant1_Hop





3DH5_Ant1_Hop





A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	>=0.744	PASS
2DH5	Ant1	Hop	1.028	>=0.930	PASS
3DH5	Ant1	Hop	1.020	>=0.942	PASS

Test Graph

DH5_Ant1_Hop

2DH5_Ant1_Hop

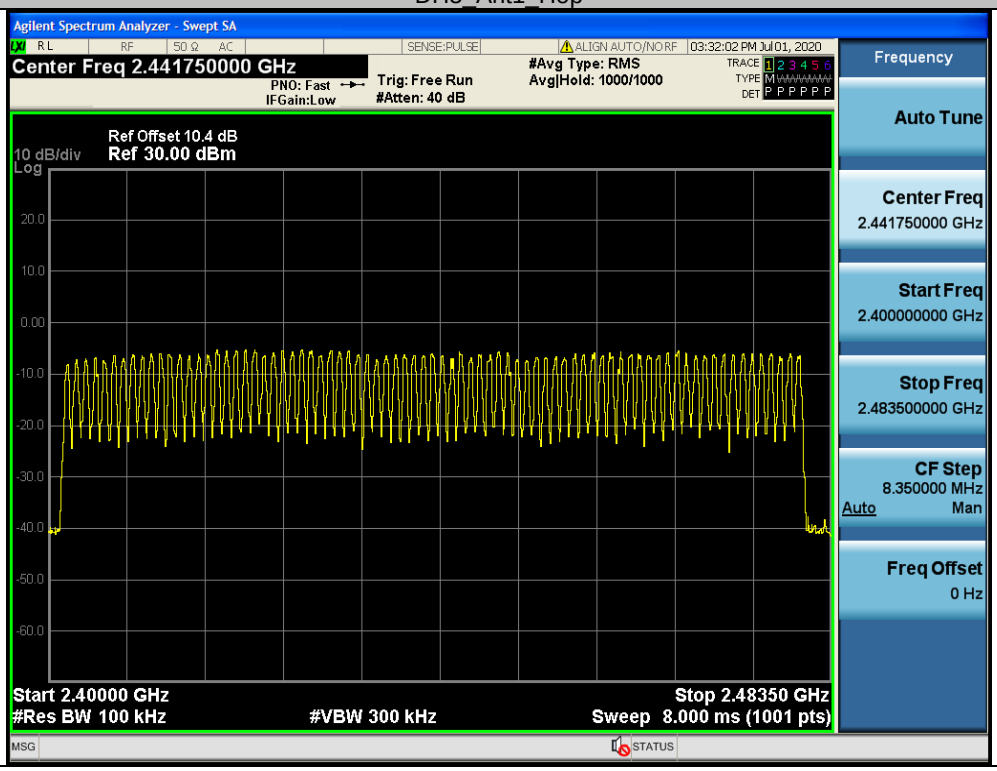
3DH5_Ant1_Hop

A.4 Hopping Channel Number

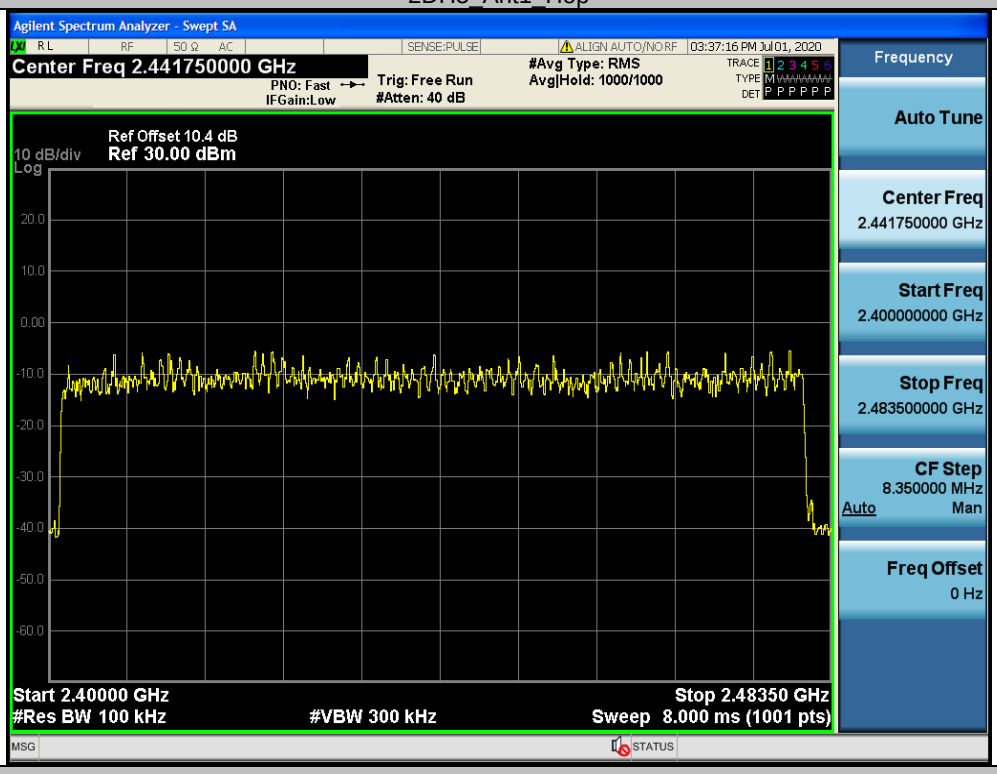
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

Test Graph

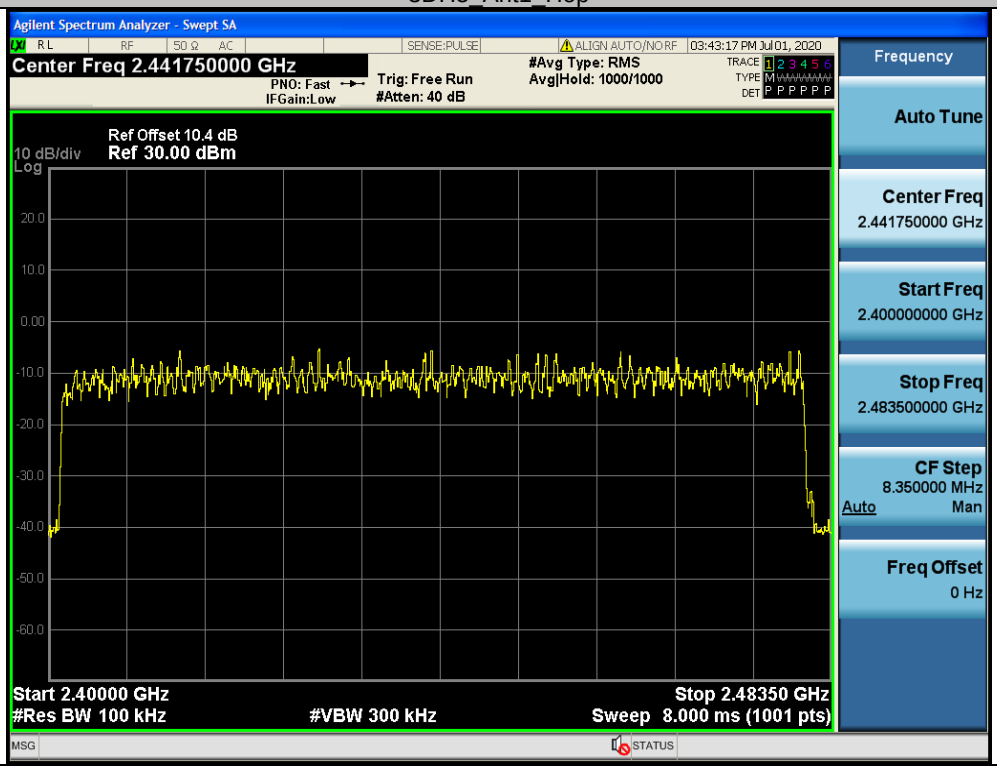
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

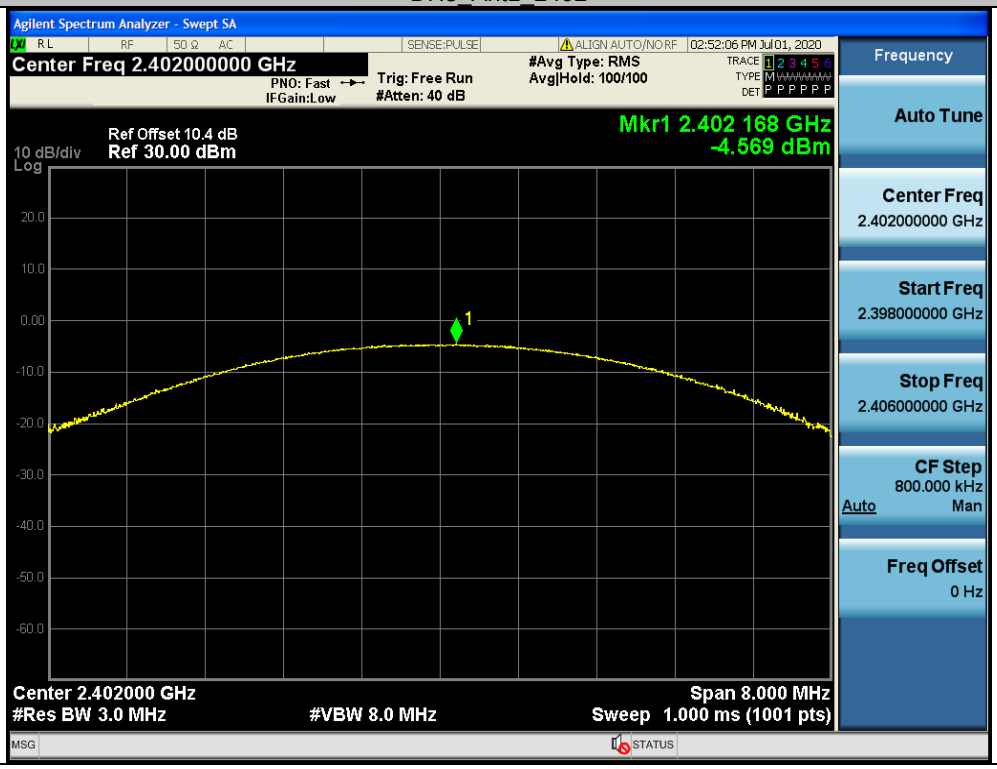


A.5 Conducted Peak Output Power

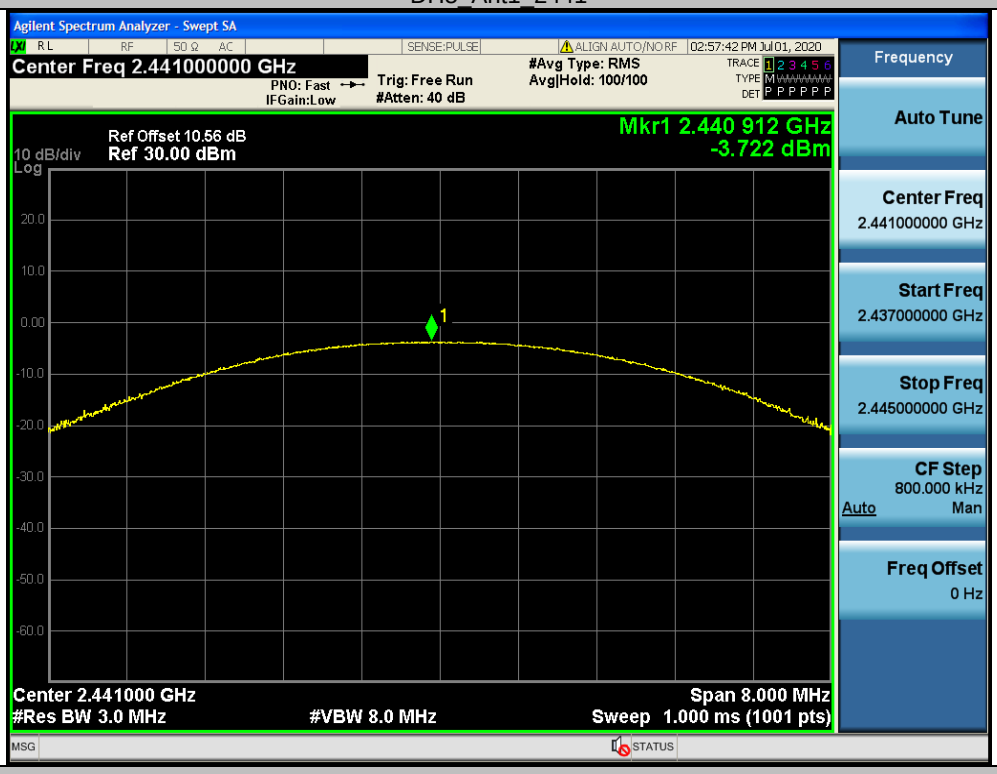
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-4.57	<=20.97	PASS
		2441	-3.72	<=20.97	PASS
		2480	-3.62	<=20.97	PASS
2DH5	Ant1	2402	-6.14	<=20.97	PASS
		2441	-4.53	<=20.97	PASS
		2480	-4.21	<=20.97	PASS
3DH5	Ant1	2402	-5.78	<=20.97	PASS
		2441	-4.43	<=20.97	PASS
		2480	-4.27	<=20.97	PASS

Test Graph

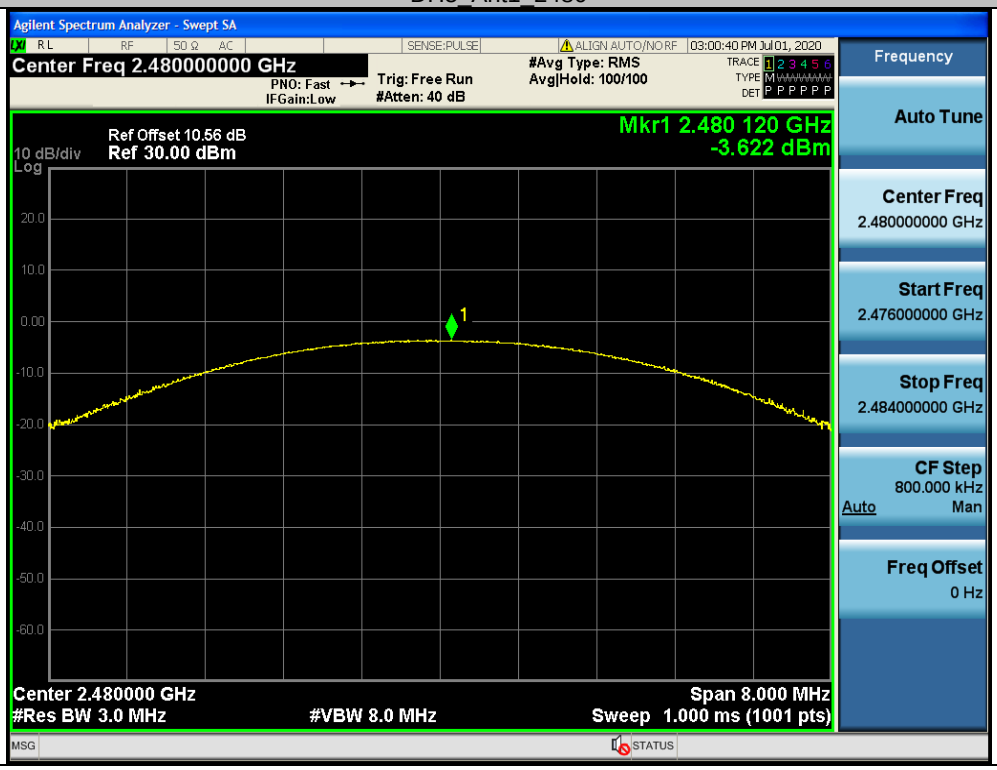
DH5_Ant1_2402



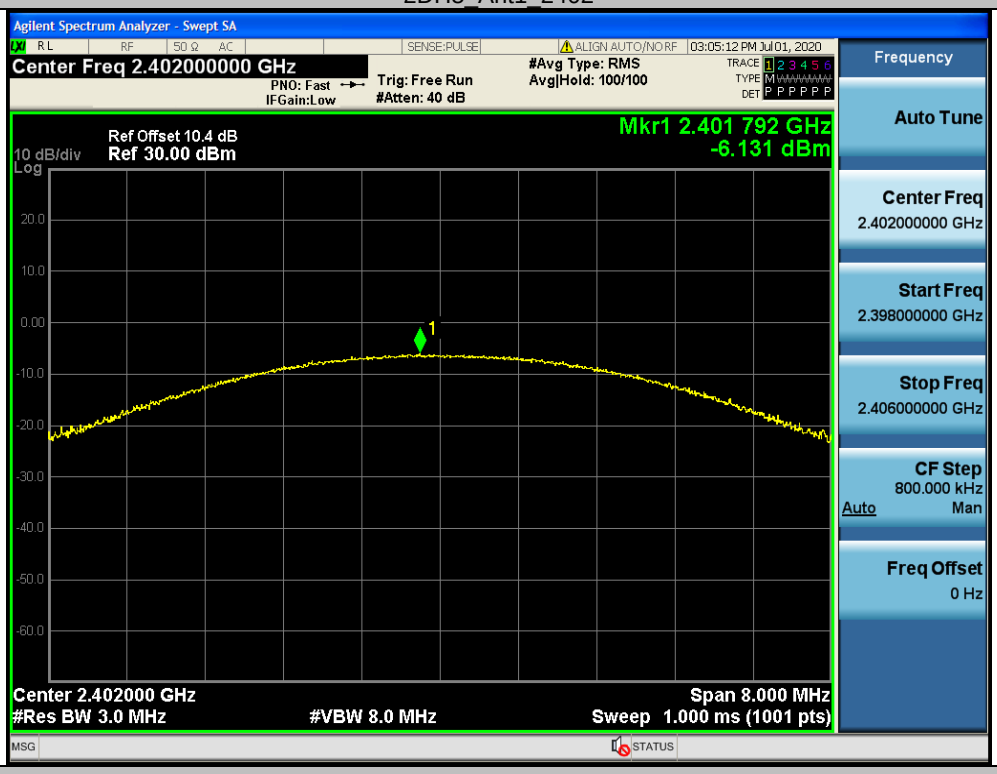
DH5_Ant1_2441



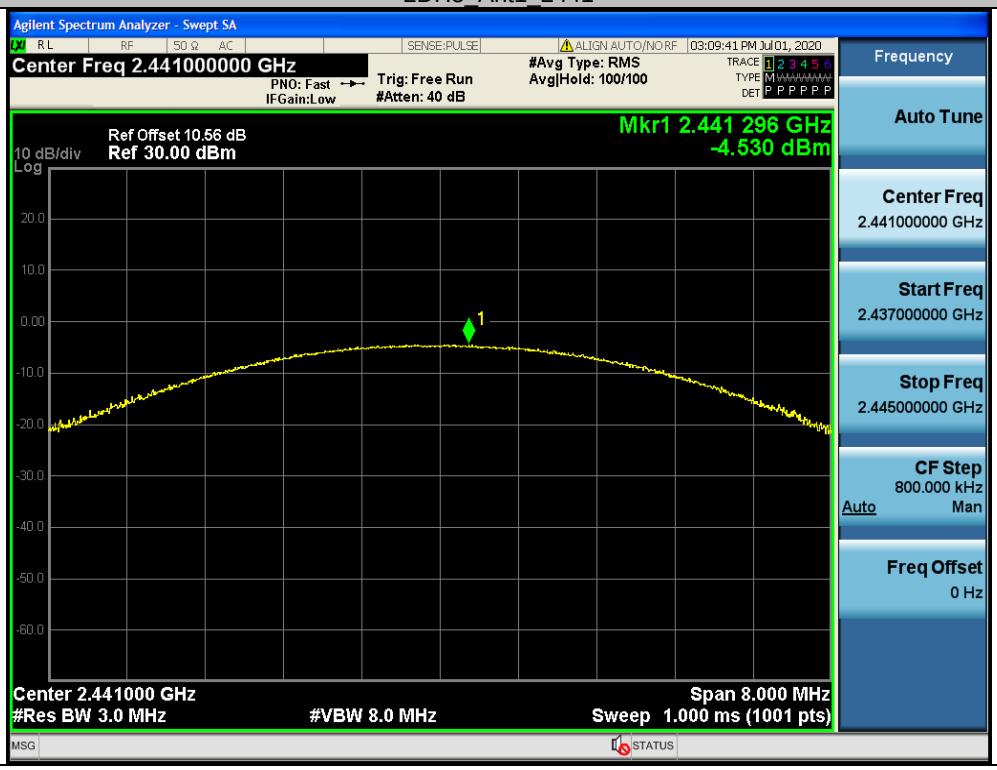
DH5_Ant1_2480



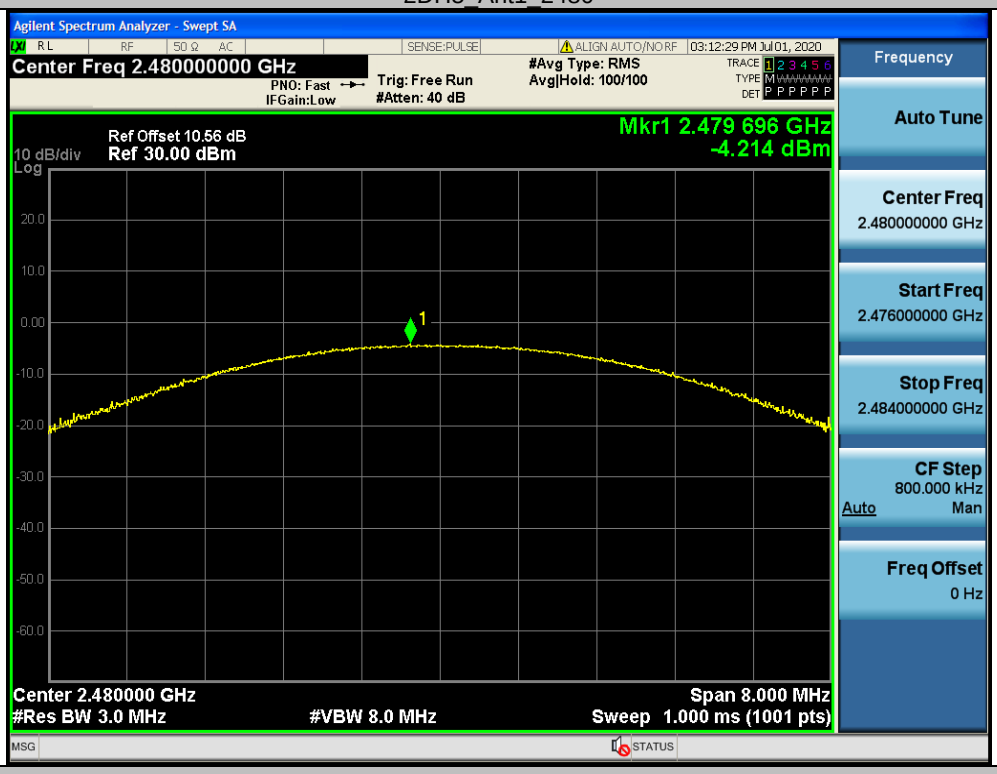
2DH5_Ant1_2402



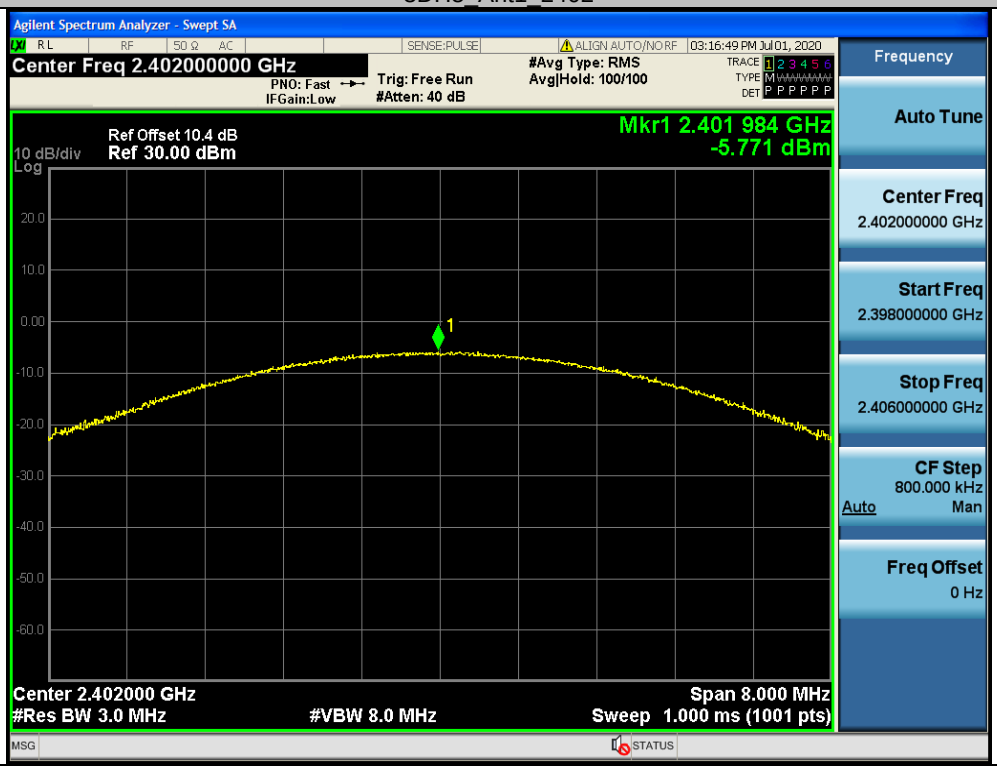
2DH5_Ant1_2441



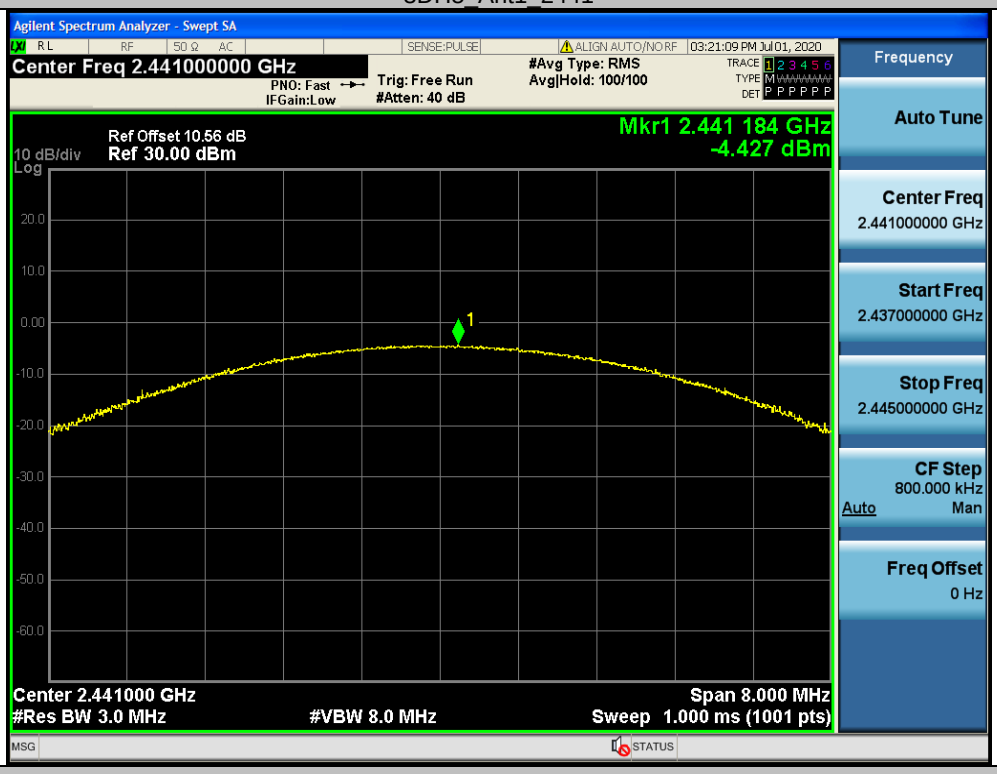
2DH5_Ant1_2480



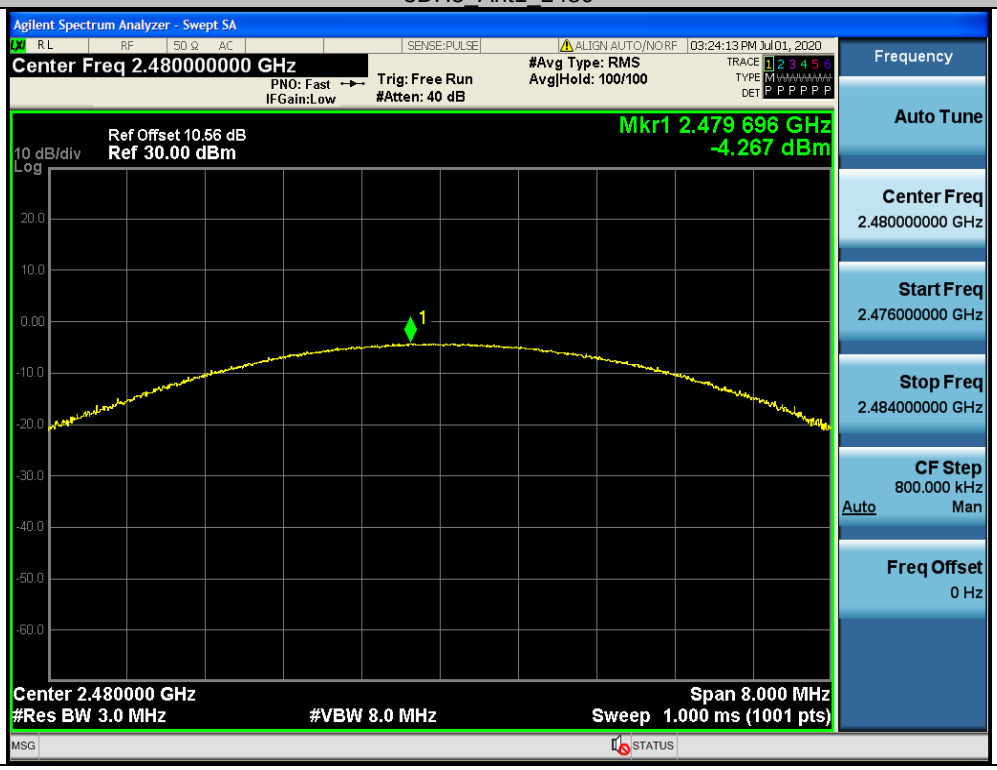
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

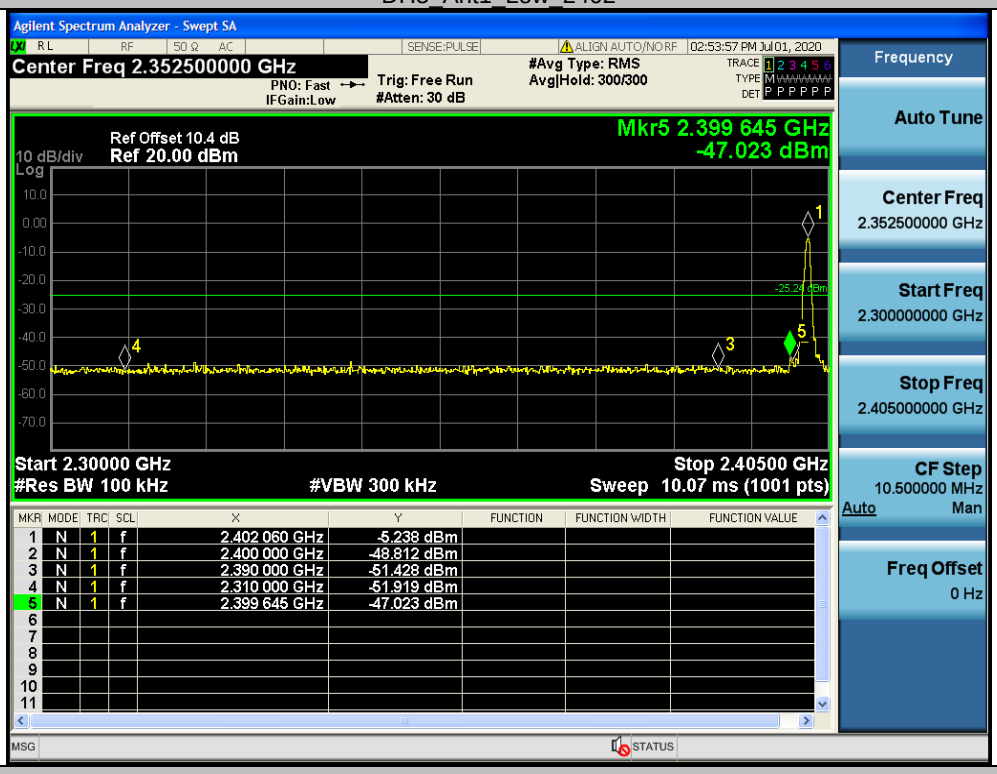


A.6 Band-edge for RF Conducted Emissions

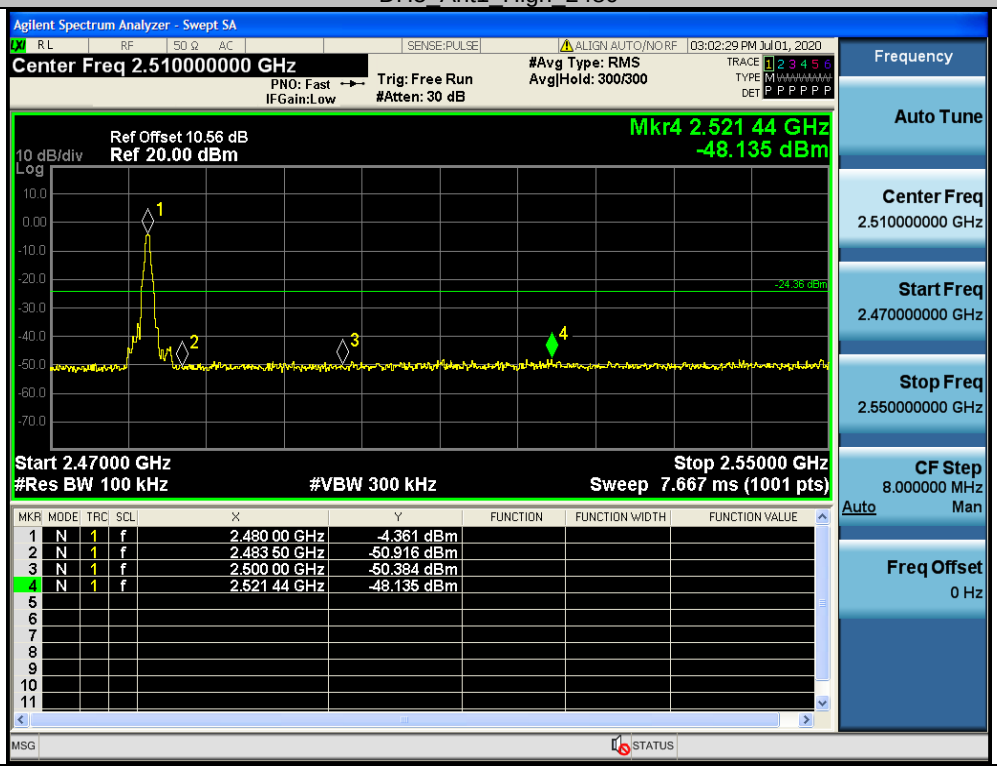
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.23	-47.02	<=-25.24	PASS
		High	2480	-4.37	-48.14	<=-24.36	PASS
		Low	Hop_2402	-7.43	-48.86	<=-27.43	PASS
		High	Hop_2480	-5.40	-48.03	<=-25.4	PASS
2DH5	Ant1	Low	2402	-9.28	-48.35	<=-29.27	PASS
		High	2480	-5.28	-47.99	<=-25.28	PASS
		Low	Hop_2402	-11.03	-48.46	<=-31.04	PASS
		High	Hop_2480	-5.54	-47.68	<=-25.55	PASS
3DH5	Ant1	Low	2402	-8.63	-48.91	<=-28.64	PASS
		High	2480	-5.27	-47.36	<=-25.27	PASS
		Low	Hop_2402	-7.38	-49.42	<=-27.38	PASS
		High	Hop_2480	-5.30	-48.32	<=-25.3	PASS

Test Graph

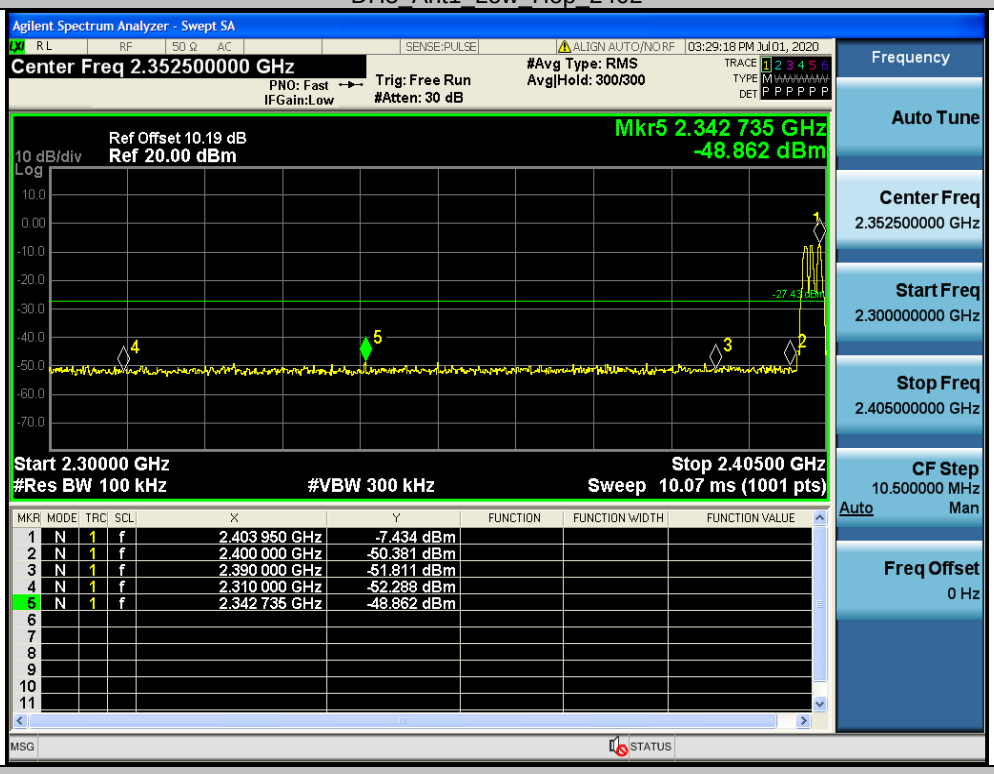
DH5_Ant1_Low_2402



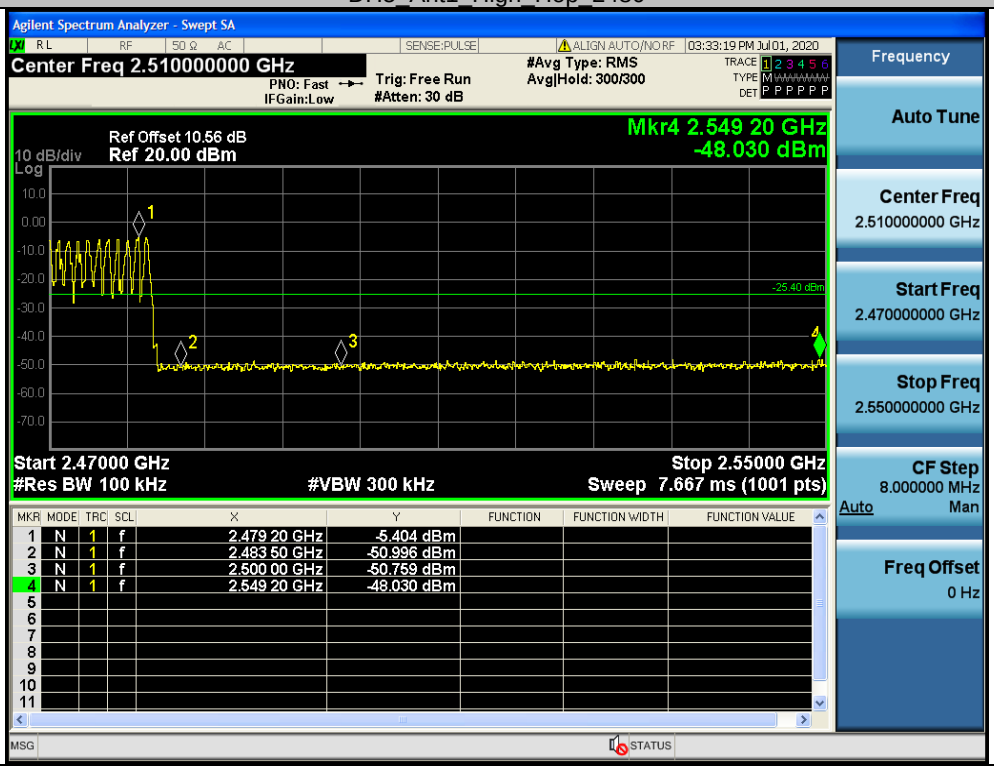
DH5_Ant1_High_2480



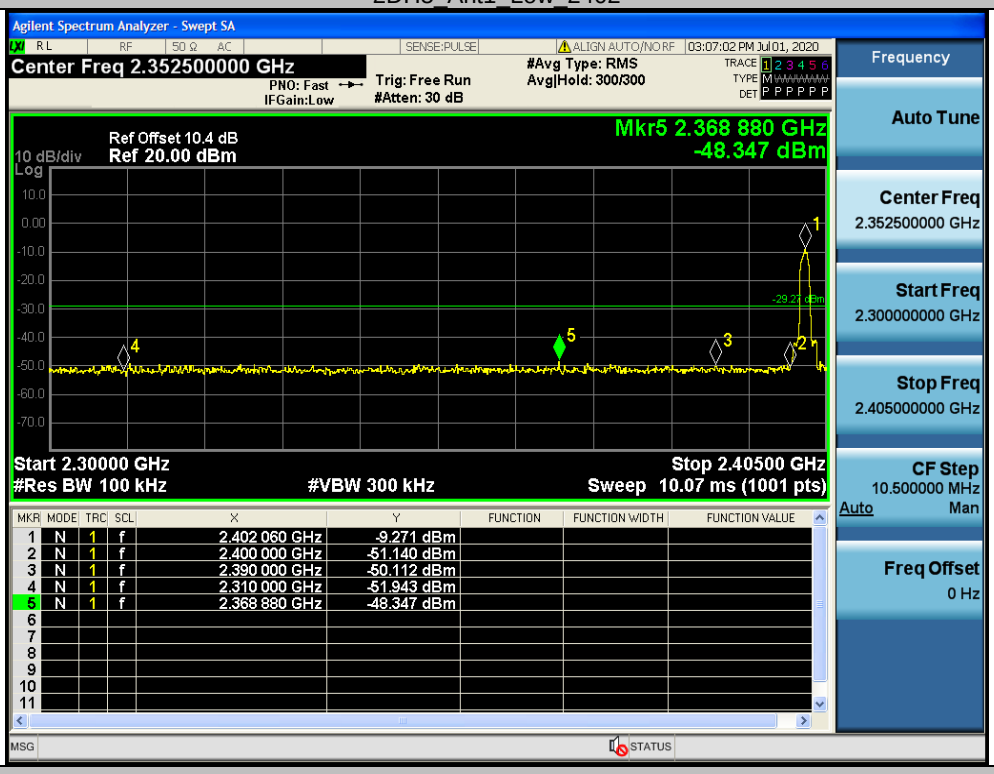
DH5_Ant1_Low_Hop_2402



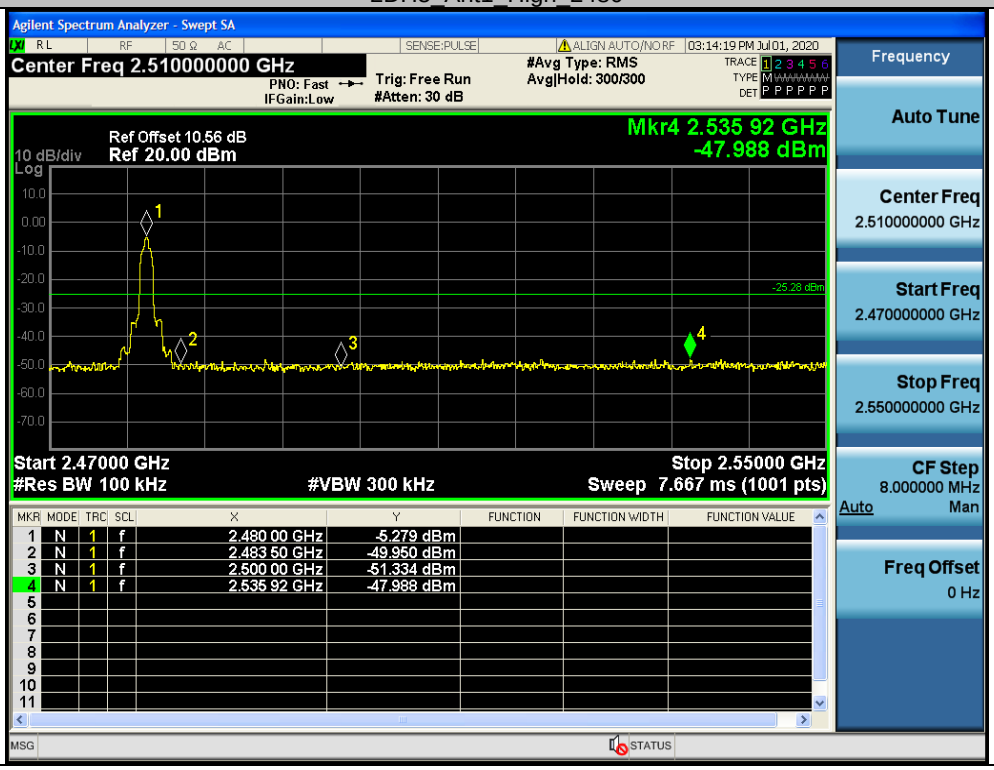
DH5_Ant1_High_Hop_2480



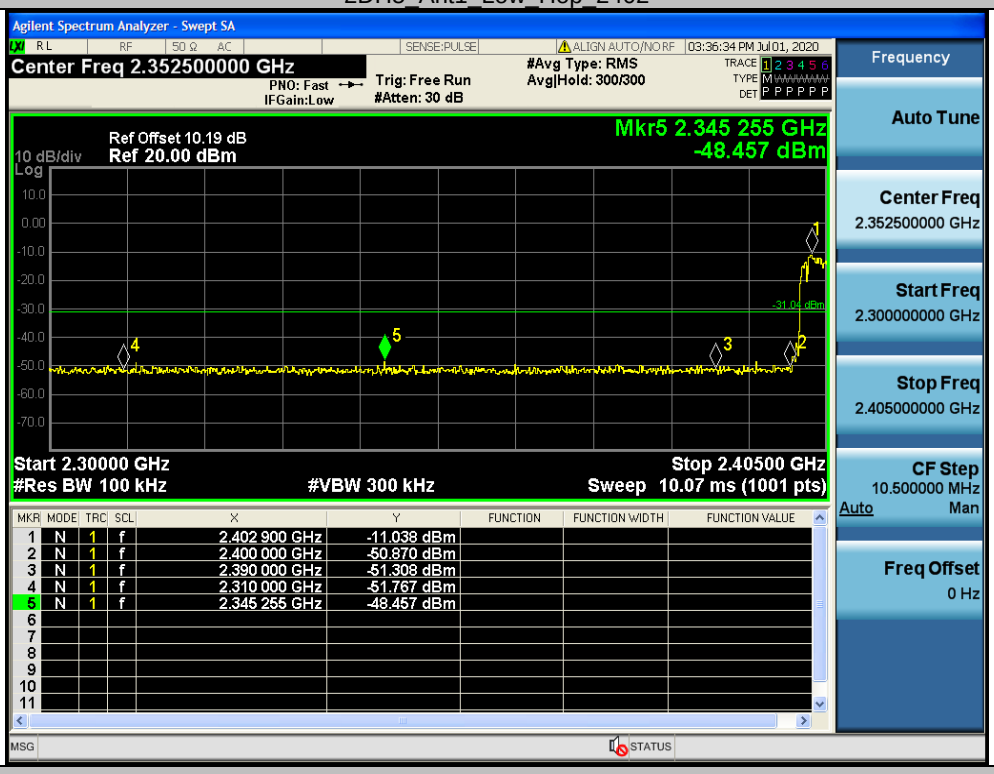
2DH5_Ant1_Low_2402



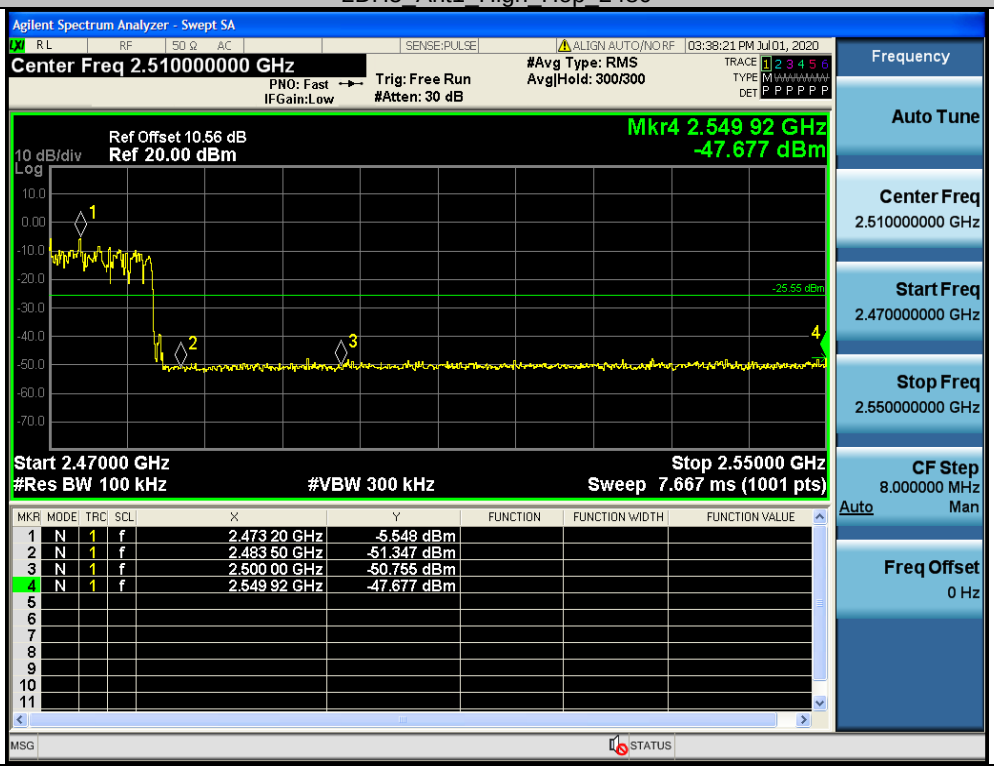
2DH5_Ant1_High_2480



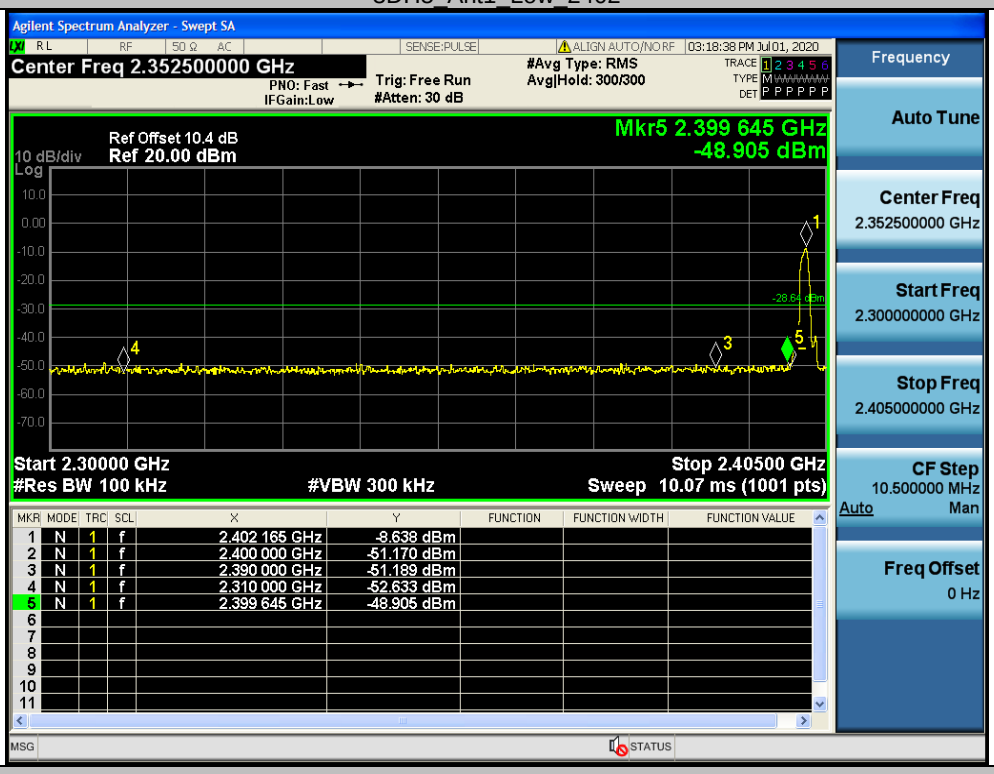
2DH5_Ant1_Low_Hop_2402



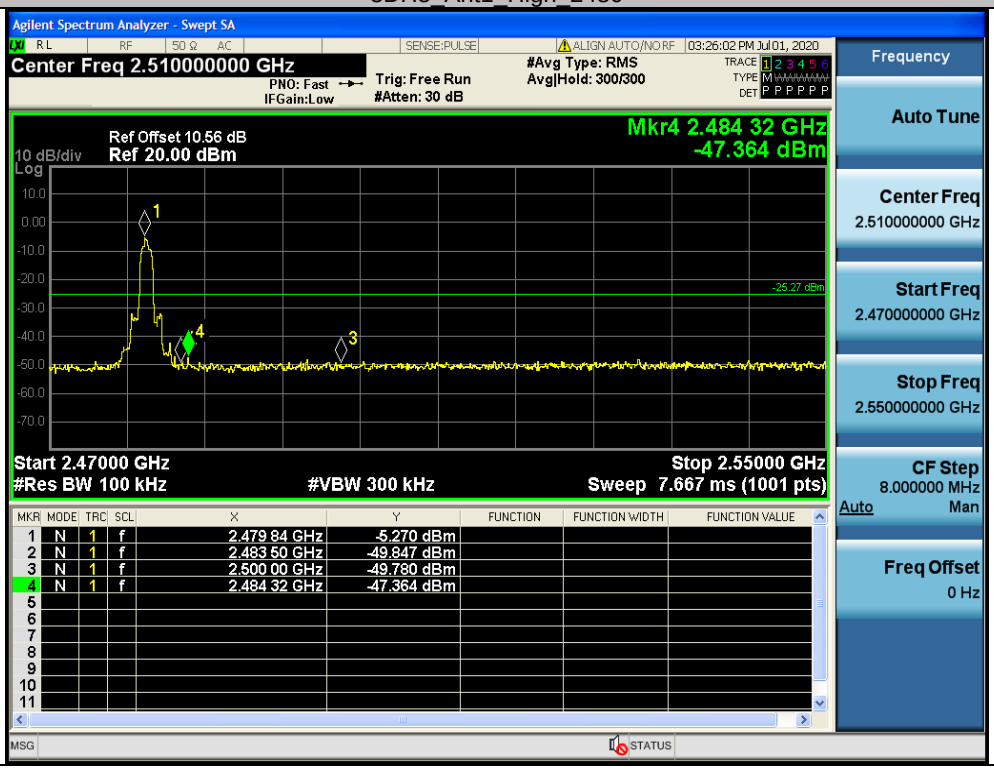
2DH5_Ant1_High_Hop_2480



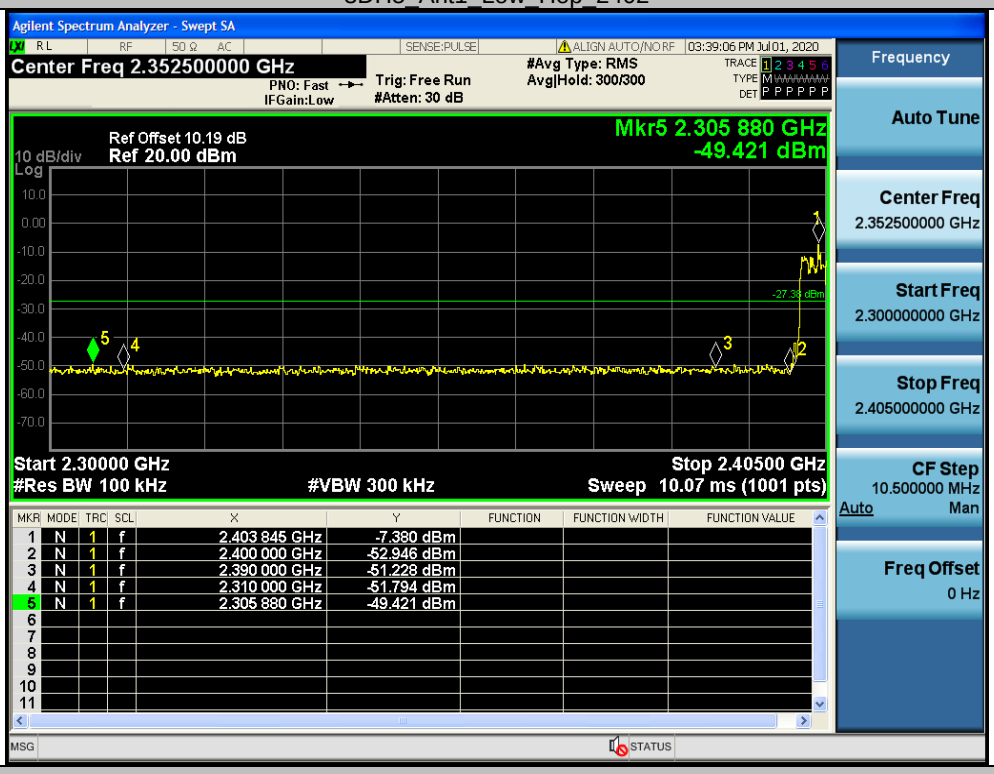
3DH5_Ant1_Low_2402



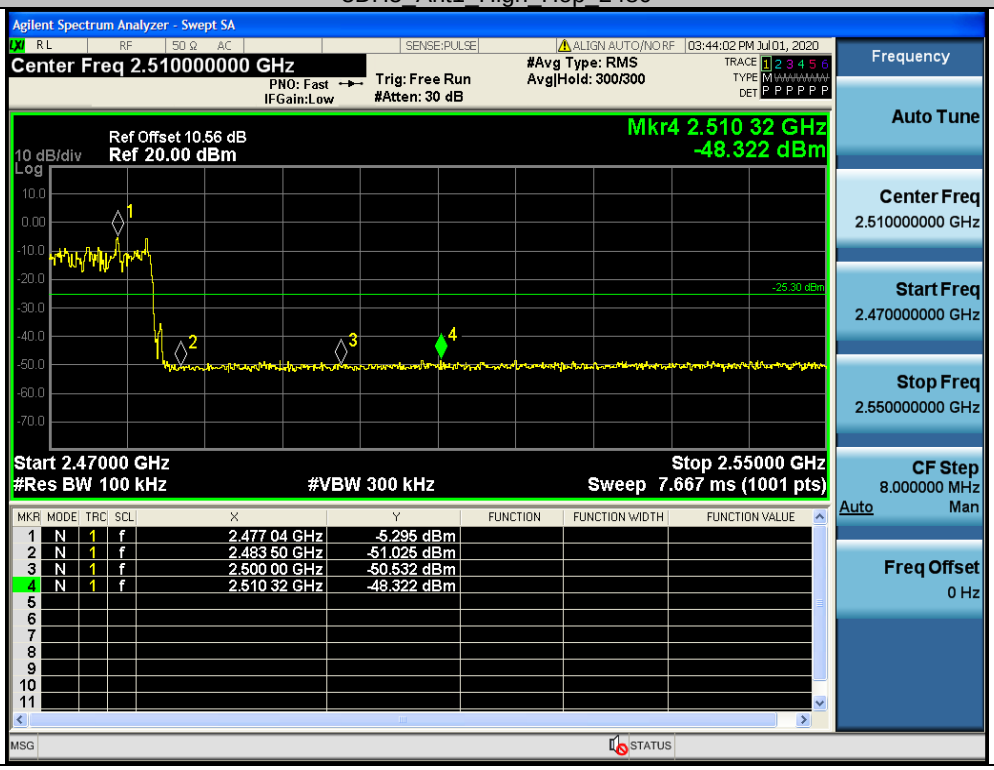
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

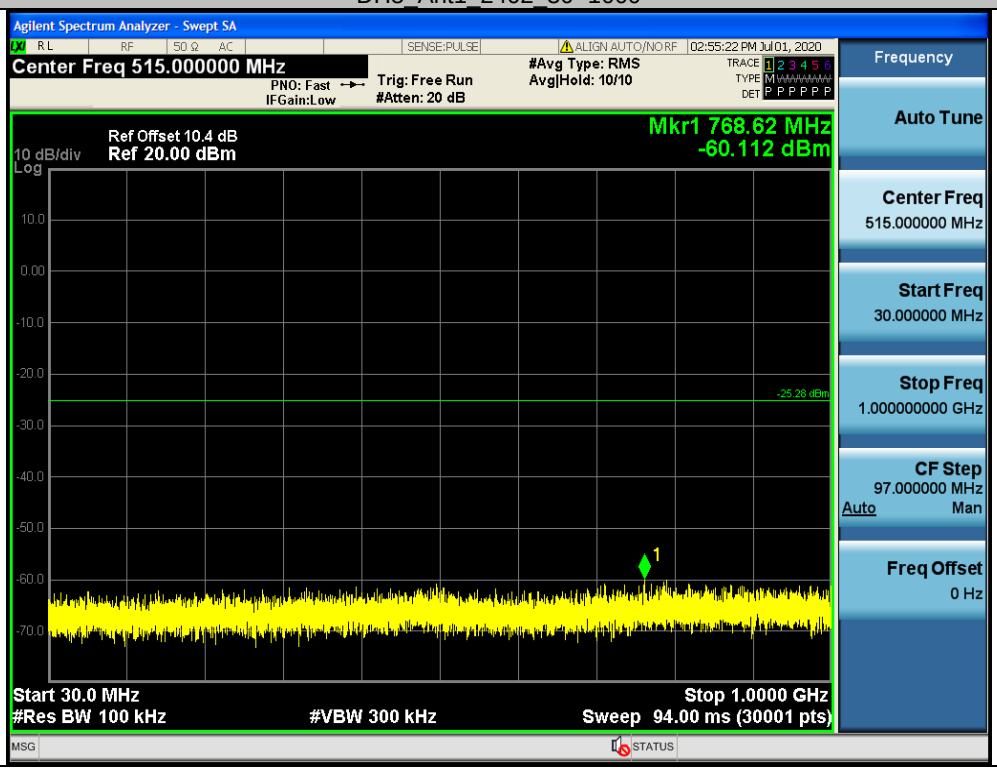


A.7 RF Conducted Spurious Emissions

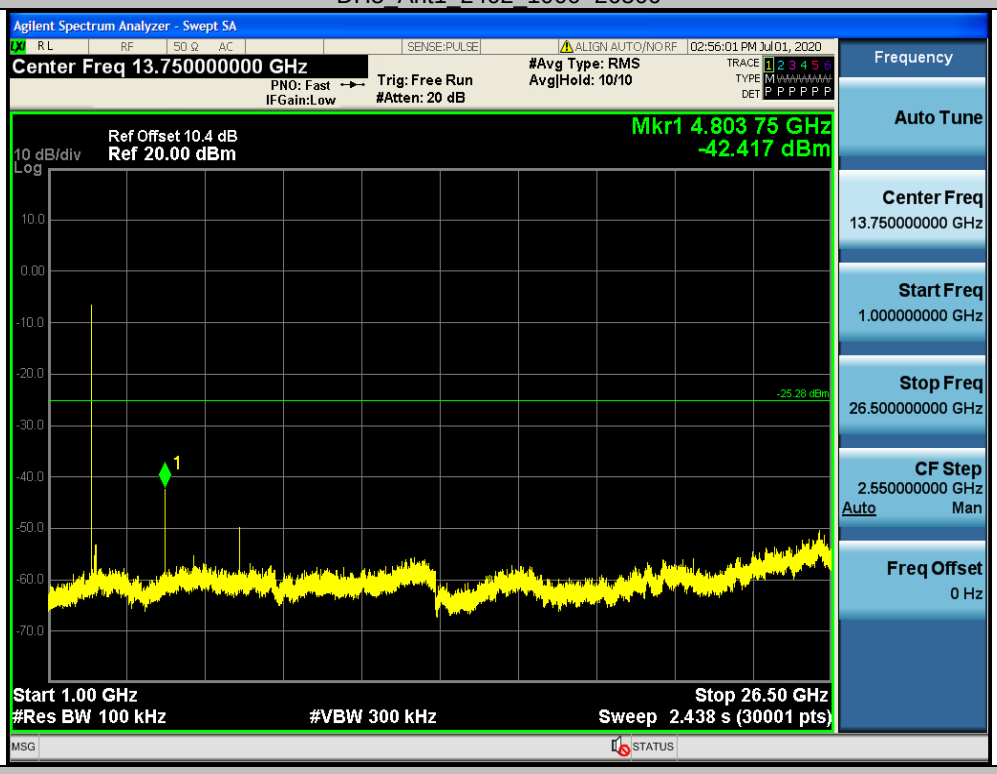
Test Graph

DH5_Ant1_2402_0~Reference

DH5_Ant1_2402_30~1000

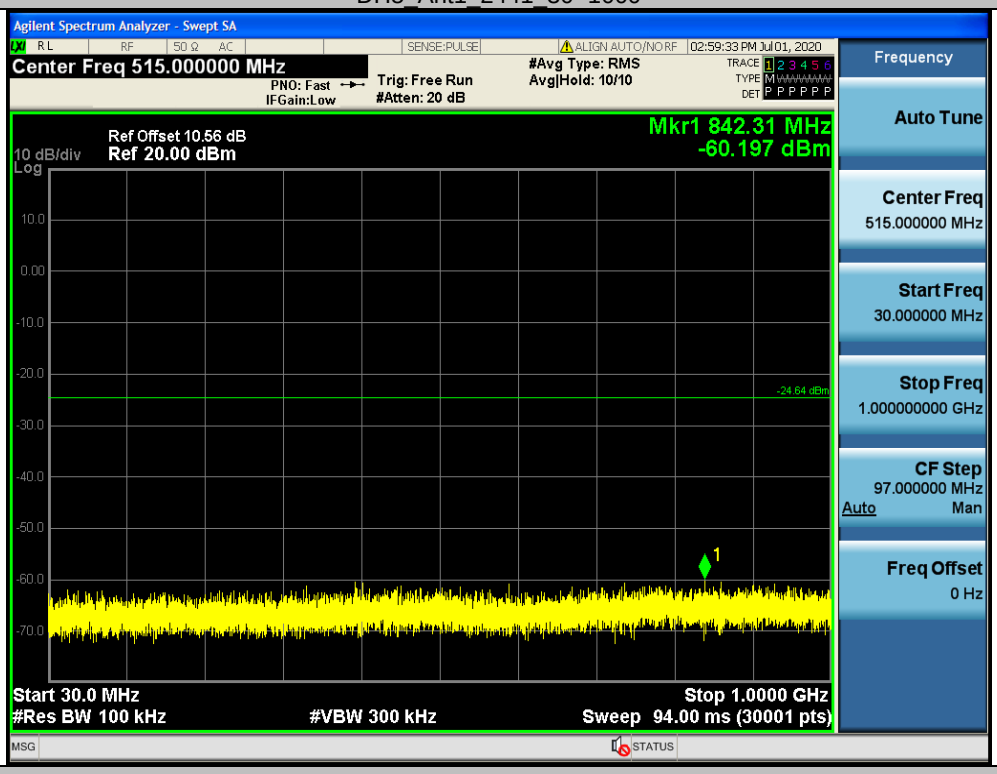


DH5_Ant1_2402_1000~26500

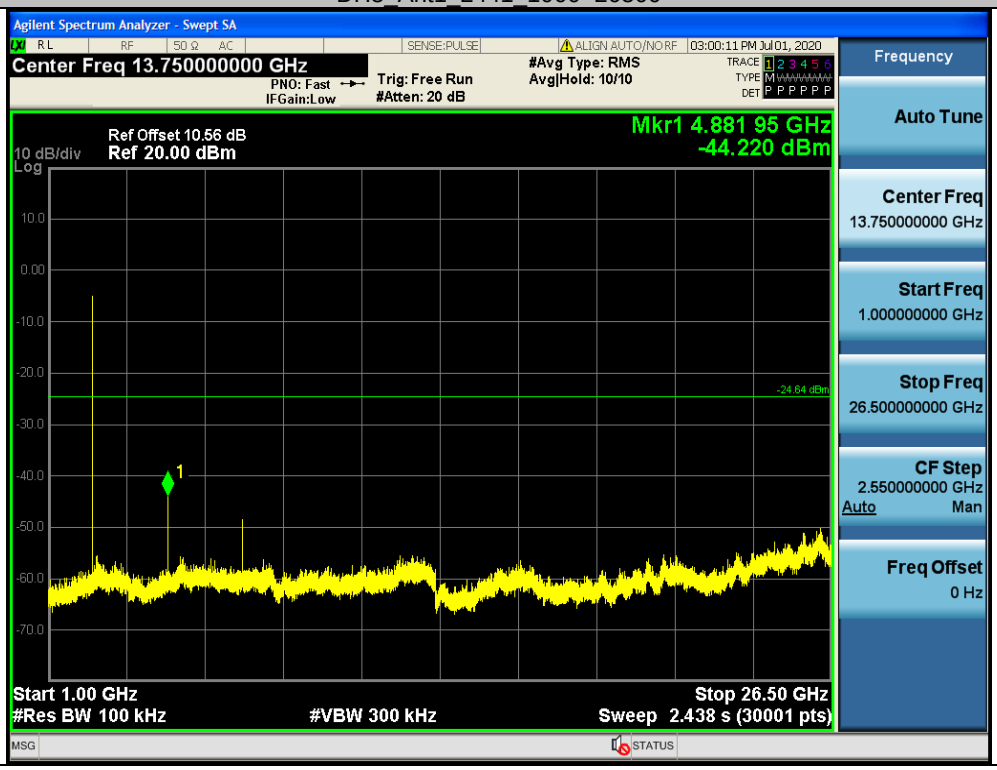


DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000

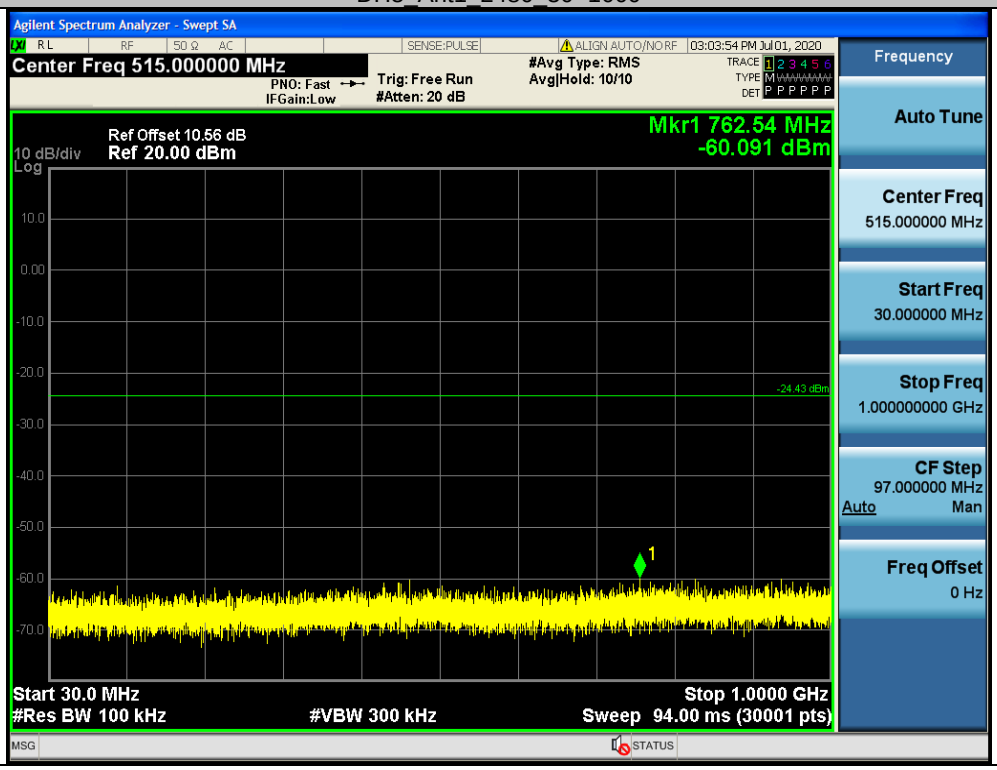


DH5_Ant1_2441_1000~26500

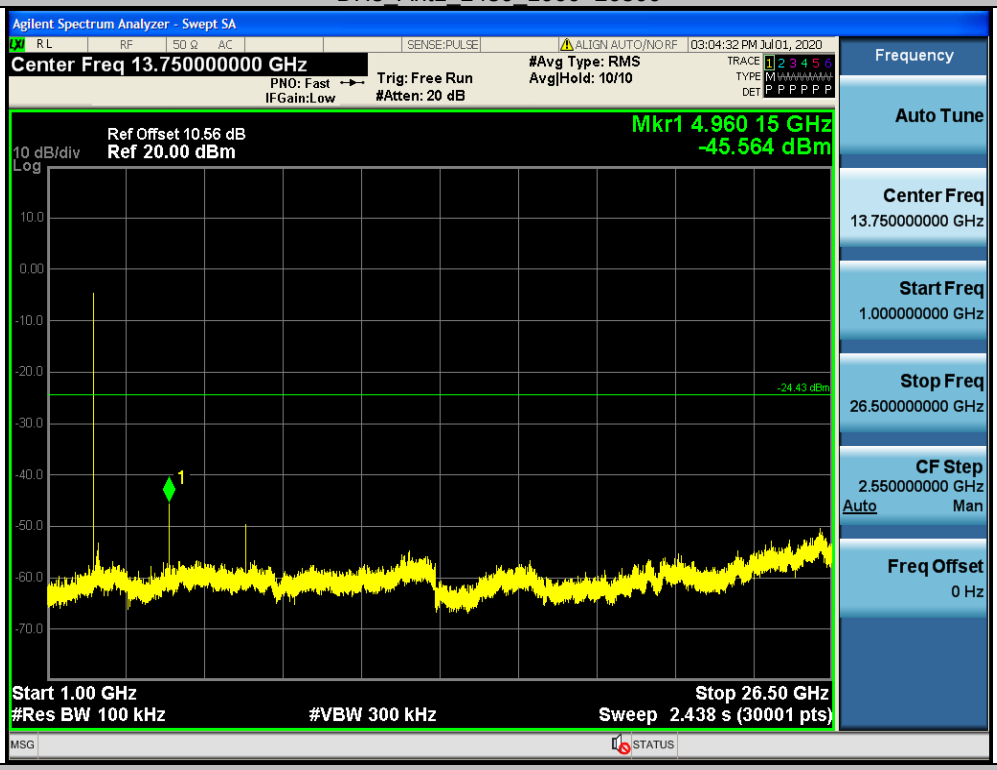


DH5_Ant1_2480_0~Reference

DH5_Ant1_2480_30~1000

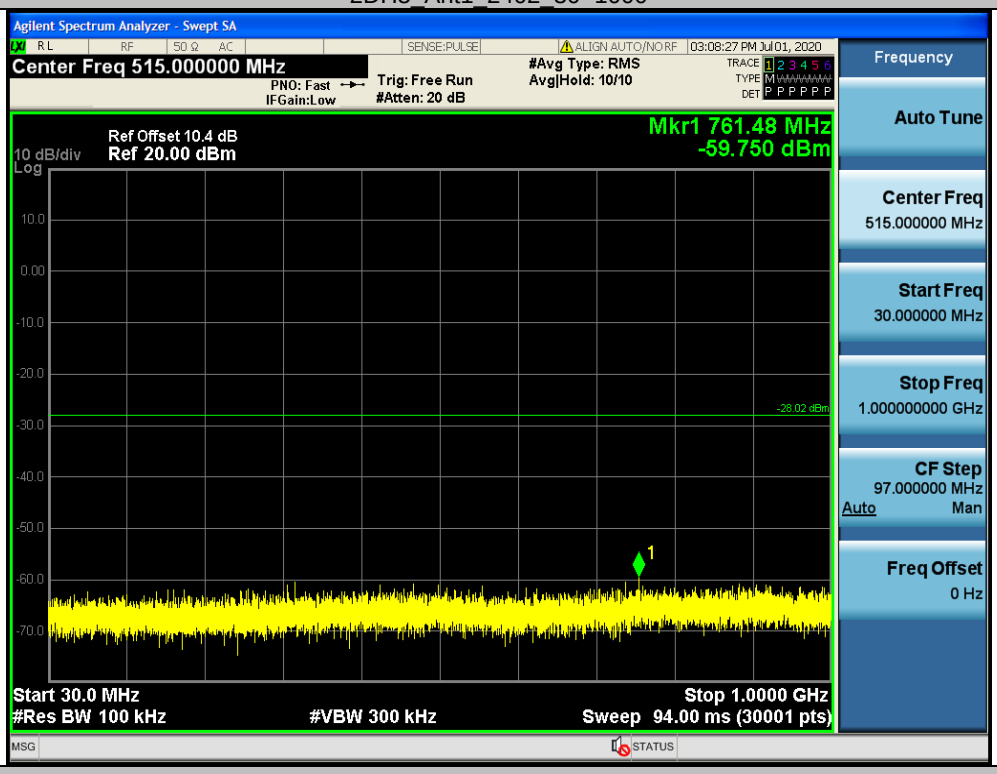


DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

2DH5_Ant1_2402_30~1000



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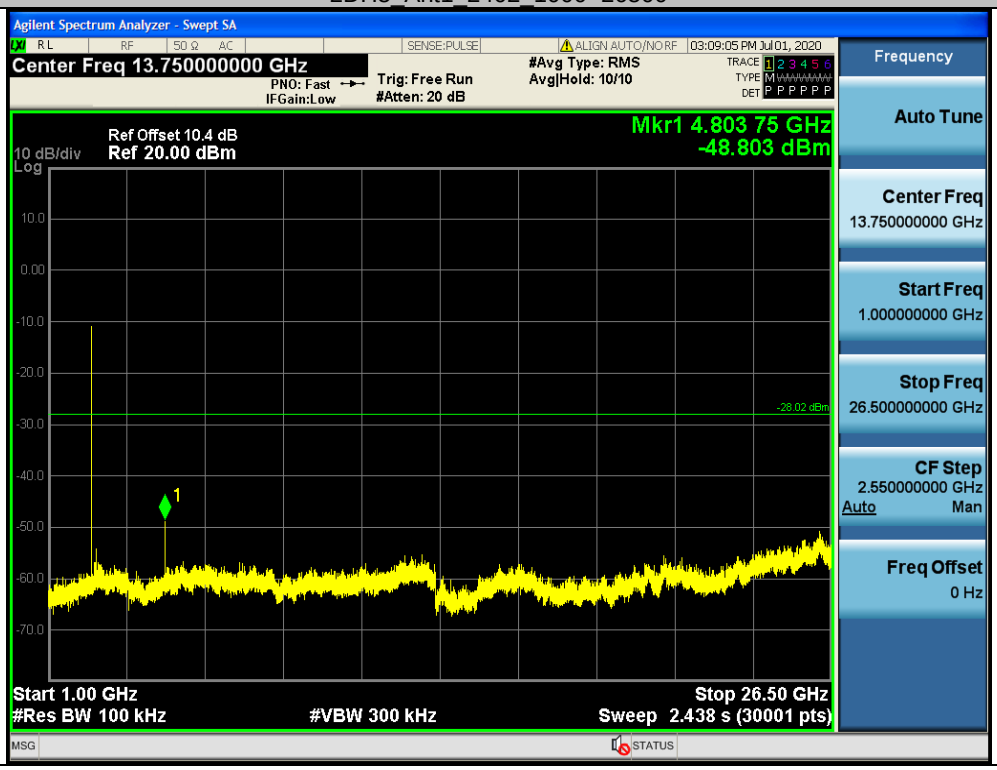

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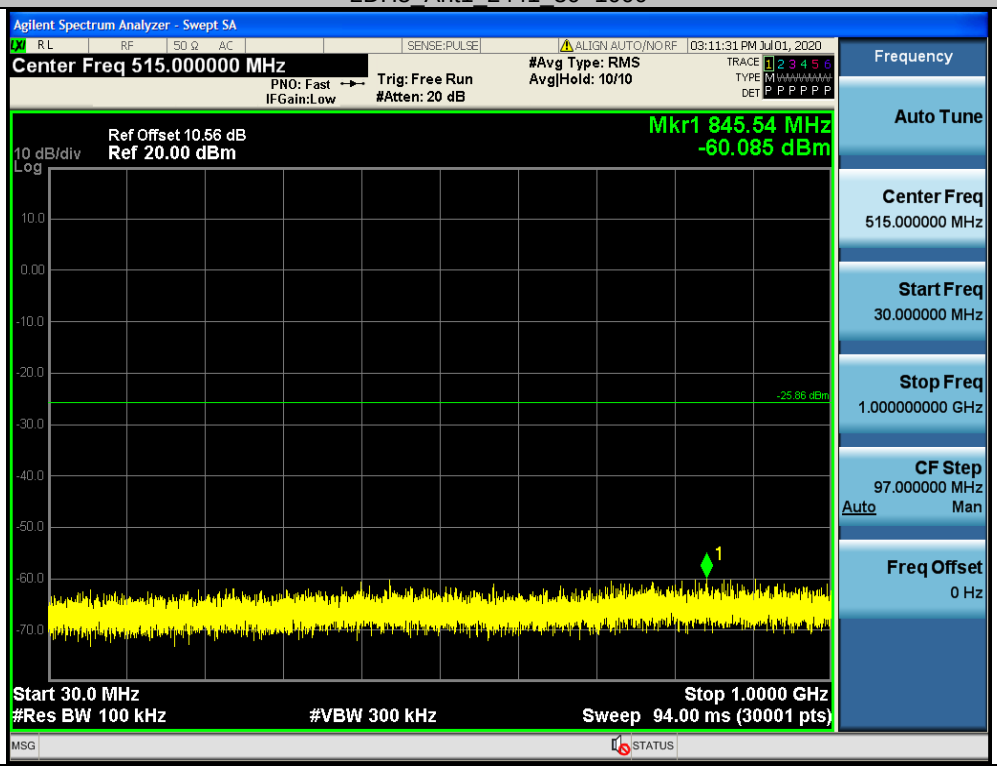
2DH5_Ant1_2441_30~1000



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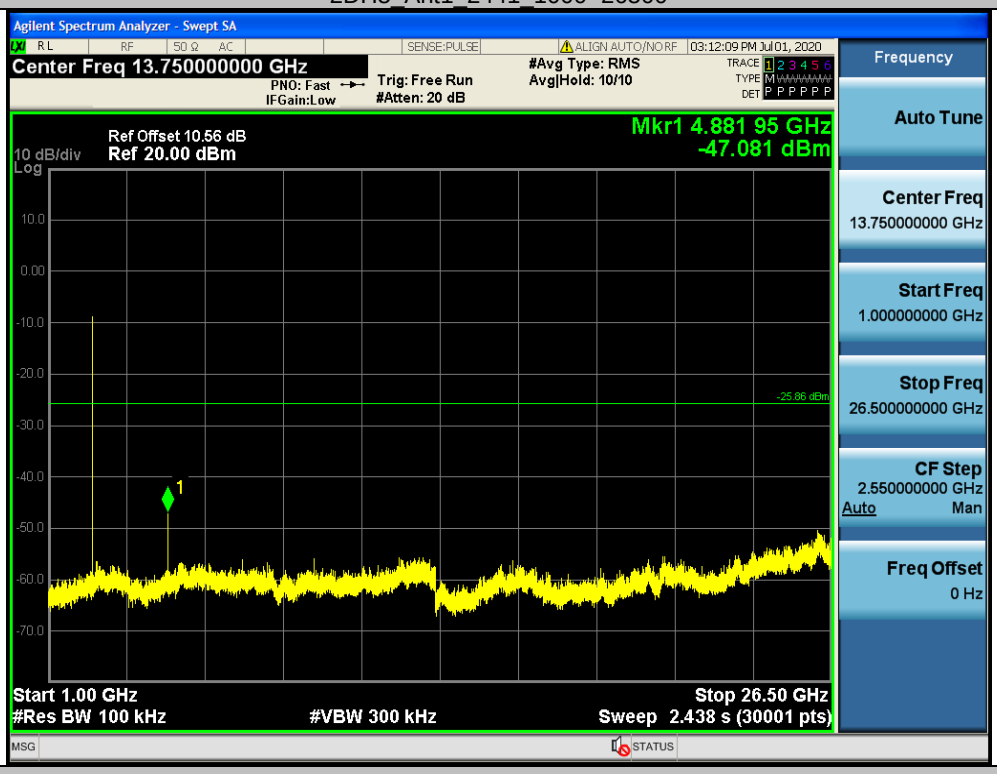

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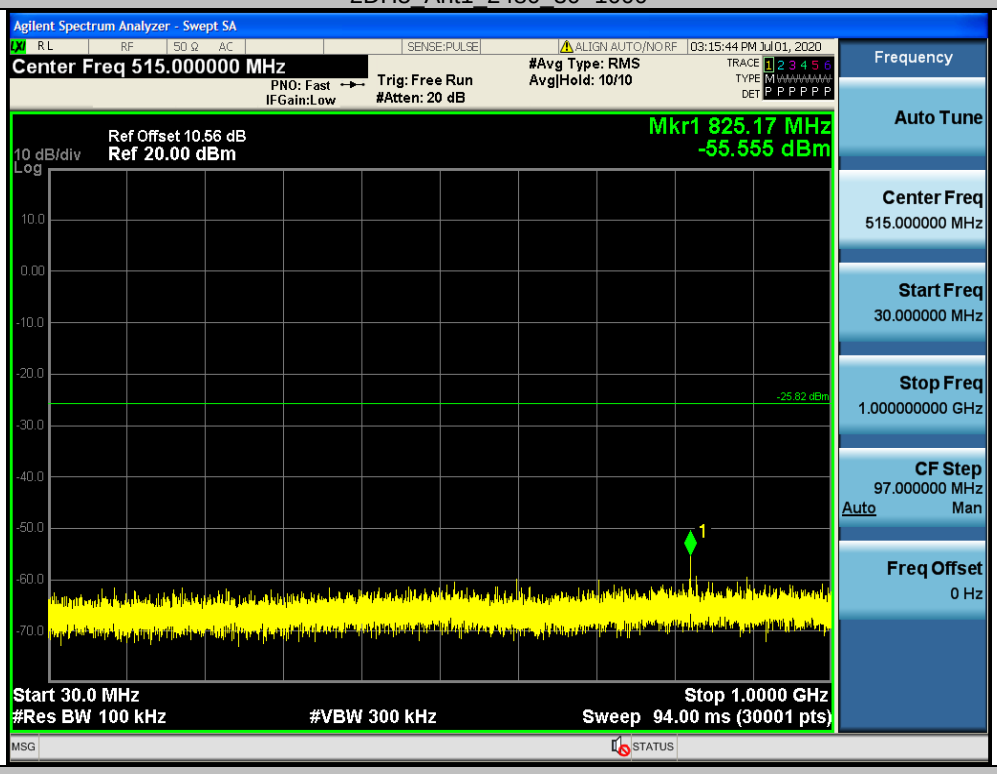

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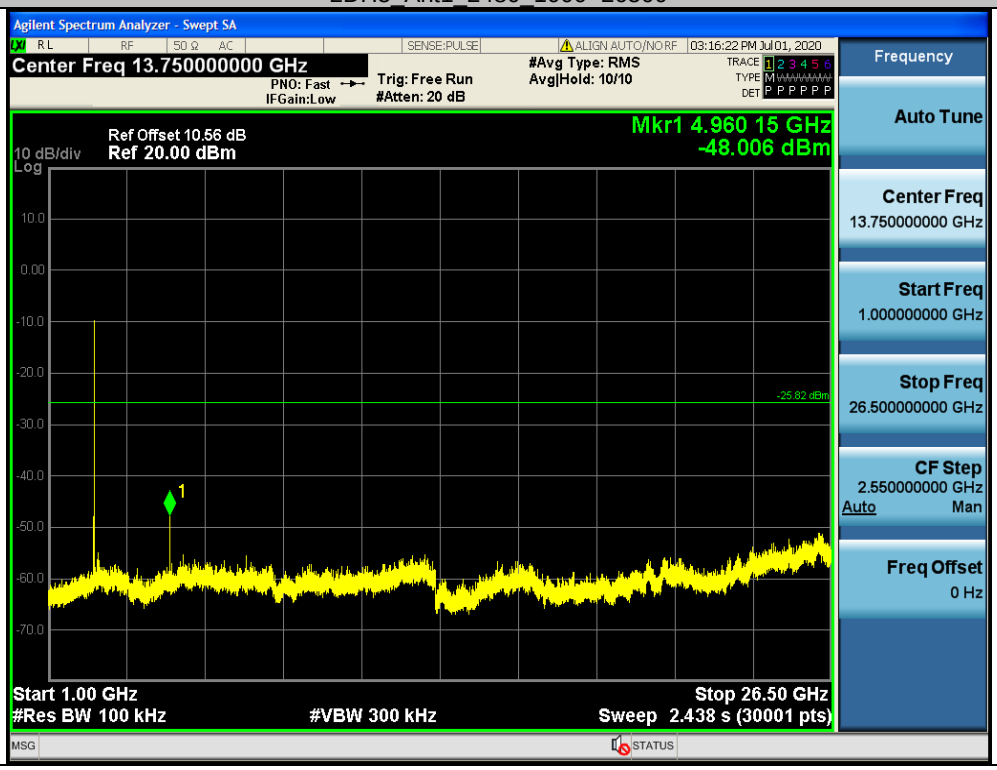

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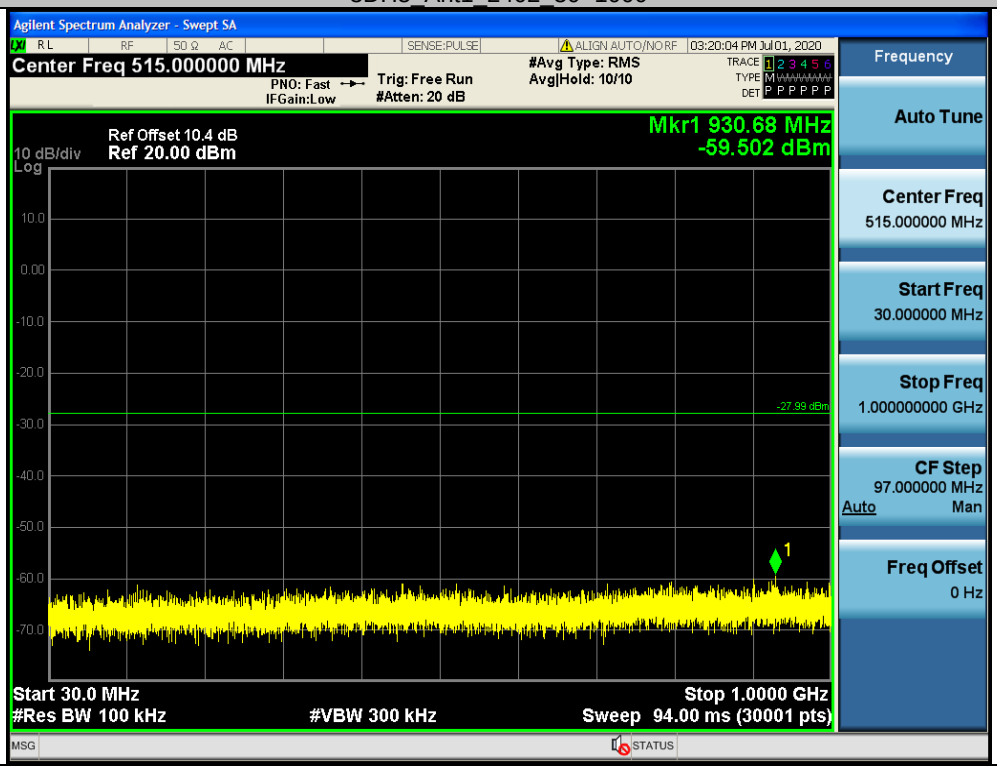

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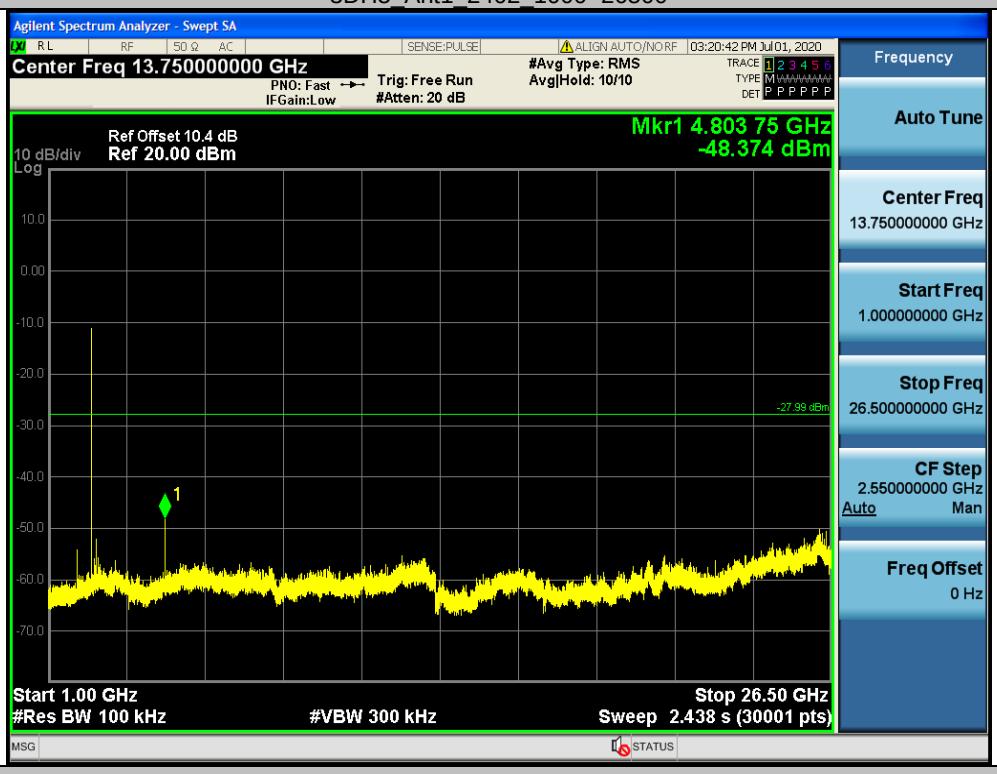

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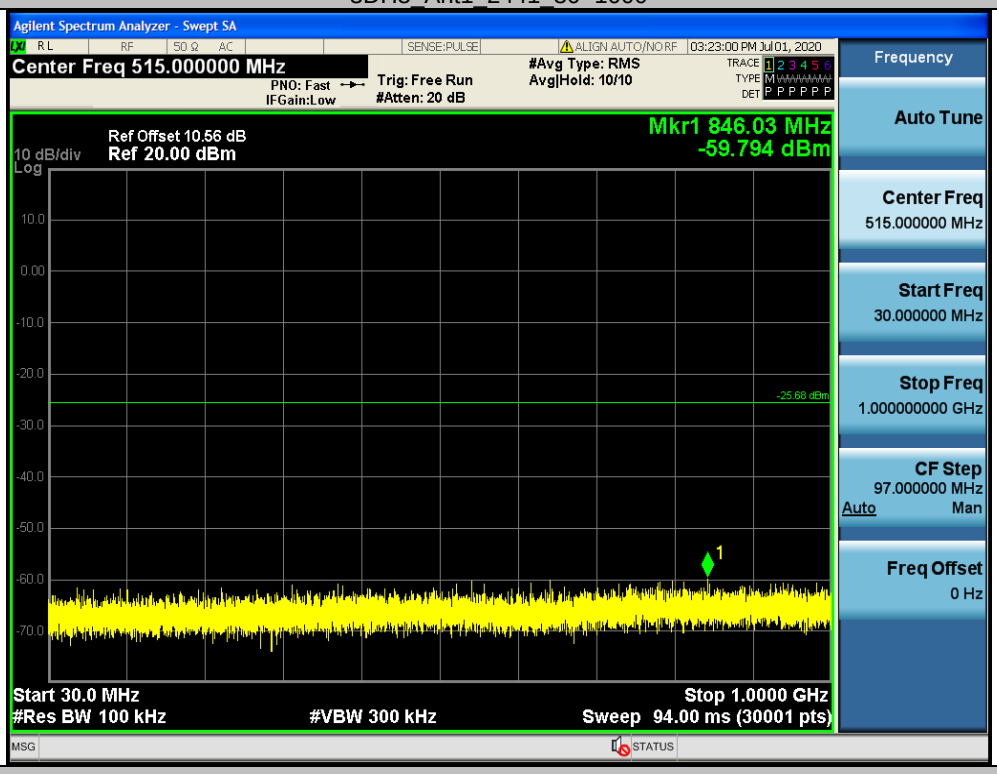

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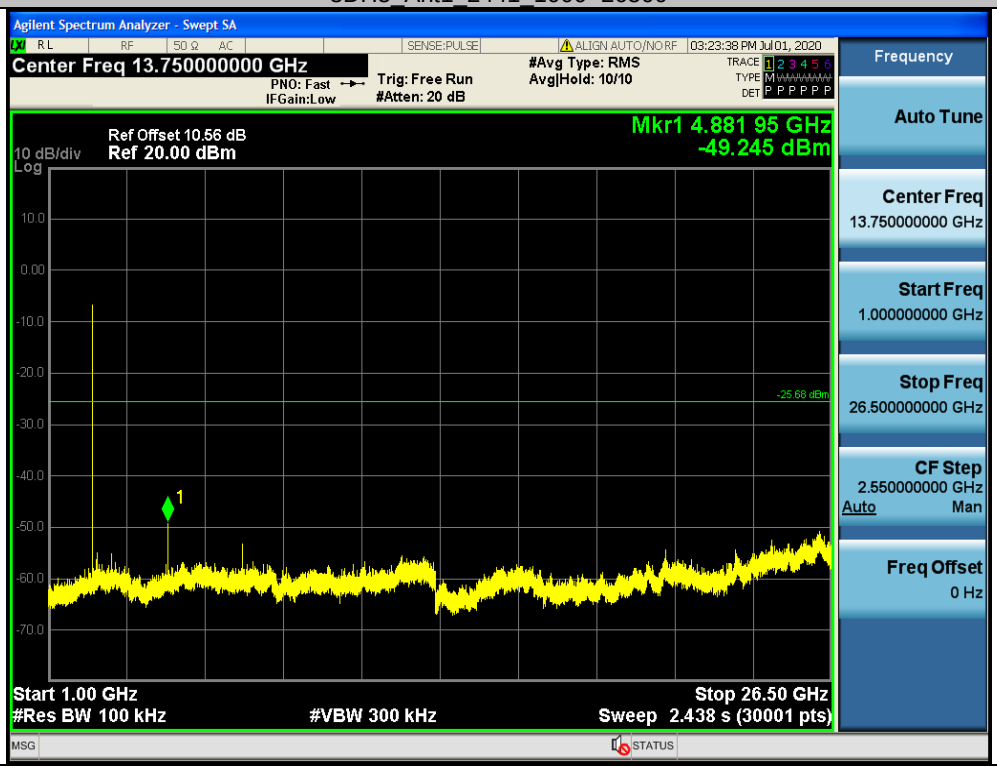

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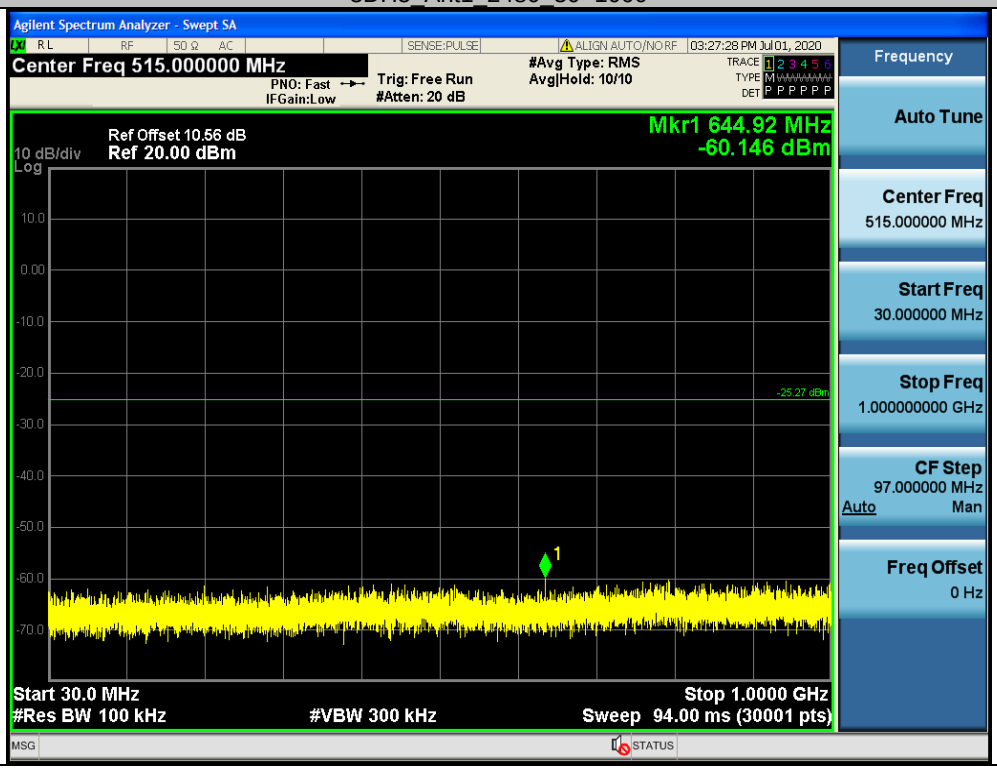
3DH5_Ant1_2480_30~1000



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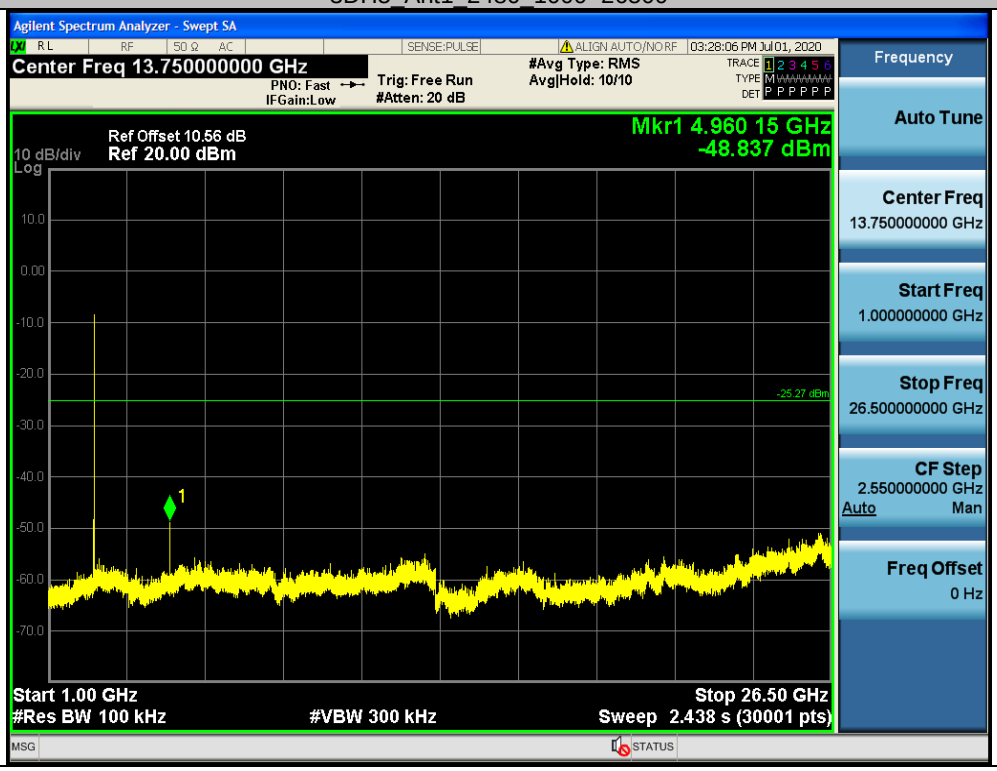


A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.84	<=-41.20	PASS
				AV	2390.000	-47.47	<=-41.20	PASS
				Peak	2310.000	-39.59	<=-21.20	PASS
				Peak	2390.000	-41.00	<=-21.20	PASS
		High	2480	AV	2483.500	-46.64	<=-41.20	PASS
				AV	2500.000	-46.80	<=-41.20	PASS
				Peak	2483.500	-39.67	<=-21.20	PASS
				Peak	2500.000	-40.63	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-47.63	<=-41.20	PASS
				AV	2390.000	-47.48	<=-41.20	PASS
				Peak	2310.000	-40.60	<=-21.20	PASS
				Peak	2390.000	-40.70	<=-21.20	PASS
		High	2480	AV	2483.500	-46.41	<=-41.20	PASS
				AV	2500.000	-46.75	<=-41.20	PASS
				Peak	2483.500	-40.22	<=-21.20	PASS
				Peak	2500.000	-39.60	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-47.80	<=-41.20	PASS
				AV	2390.000	-47.43	<=-41.20	PASS
				Peak	2310.000	-40.28	<=-21.20	PASS
				Peak	2390.000	-41.23	<=-21.20	PASS
		High	2480	AV	2483.500	-46.33	<=-41.20	PASS
				AV	2500.000	-46.73	<=-41.20	PASS
				Peak	2483.500	-38.70	<=-21.20	PASS
				Peak	2500.000	-38.96	<=-21.20	PASS

Note：

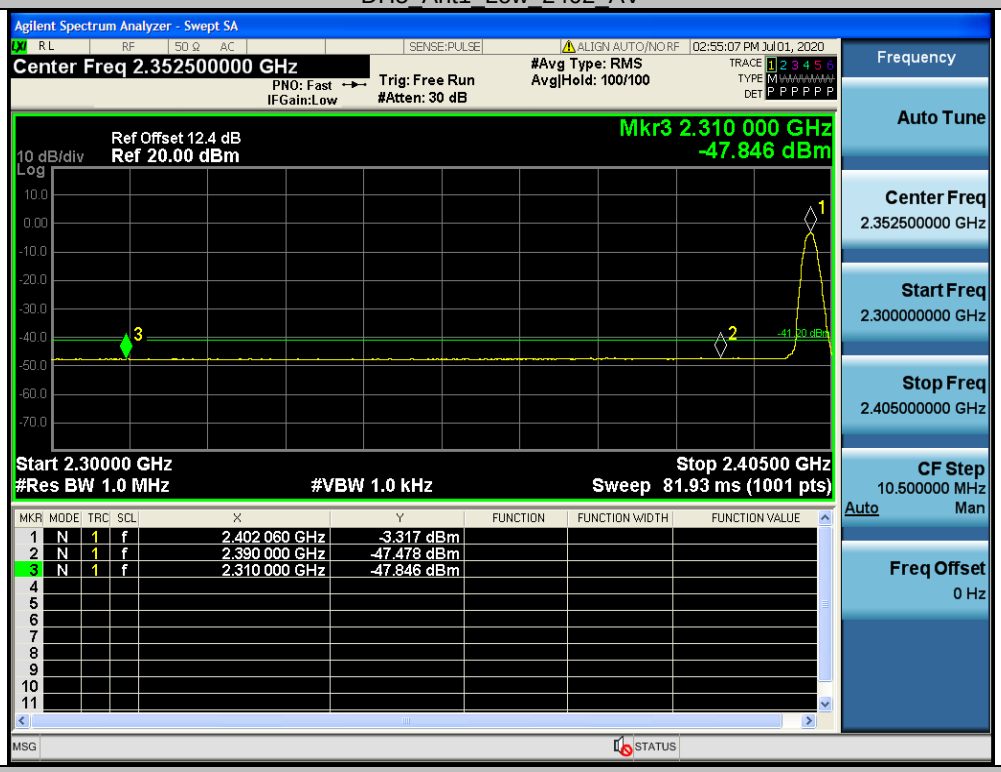
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.

2.The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a),

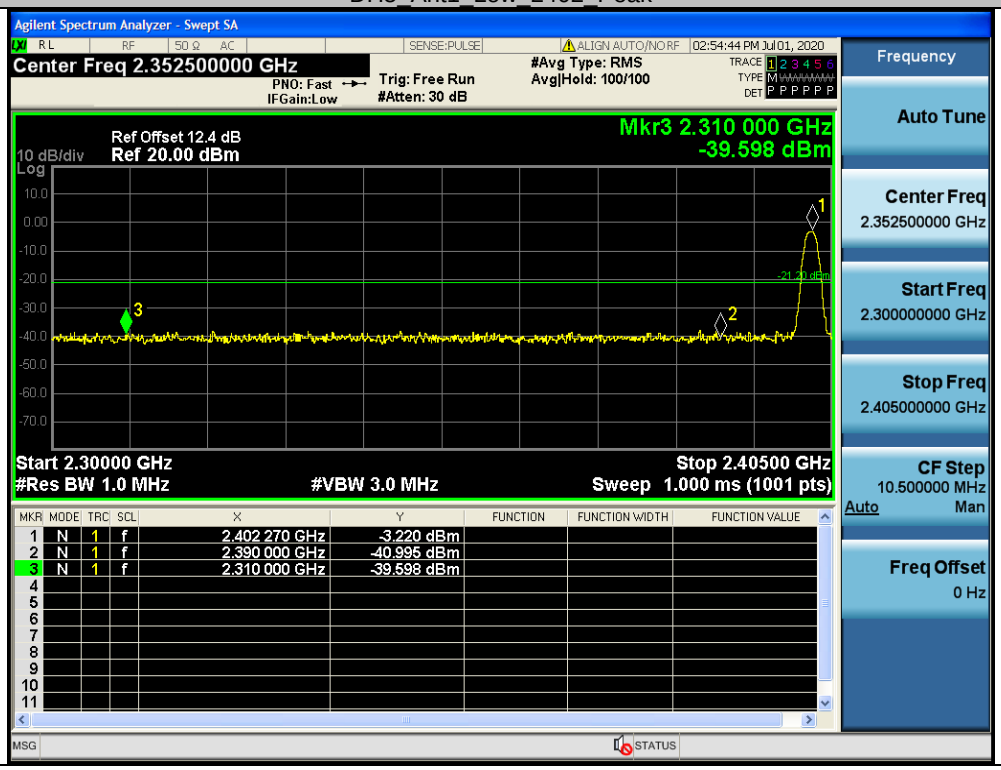
The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

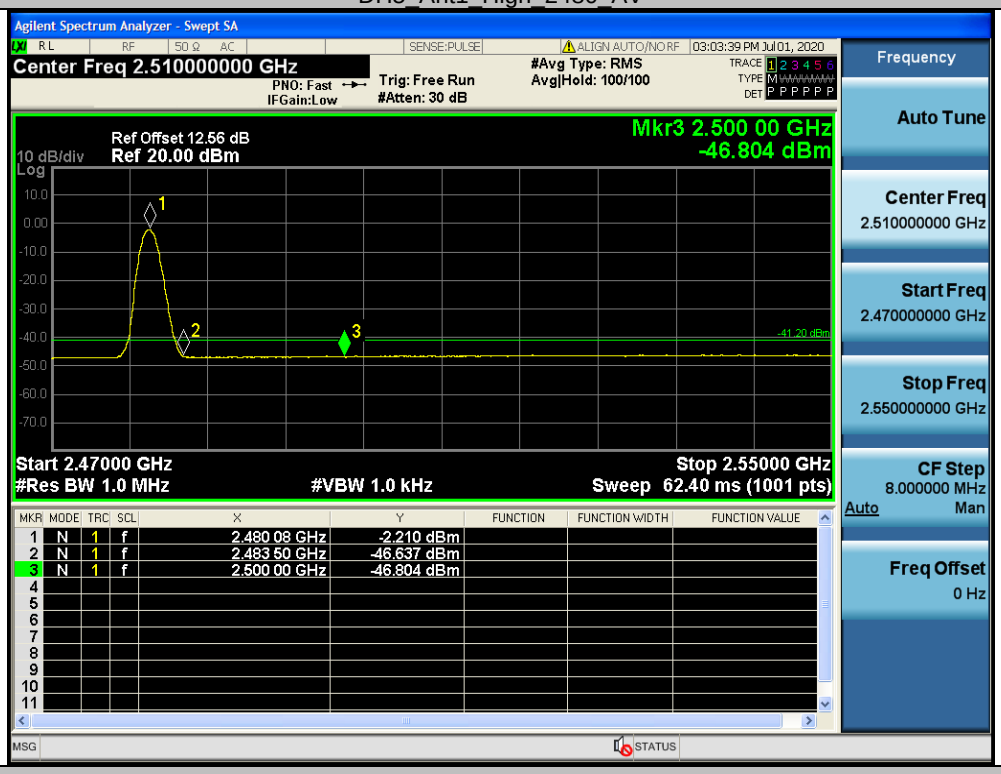
DH5_Ant1_Low_2402_AV



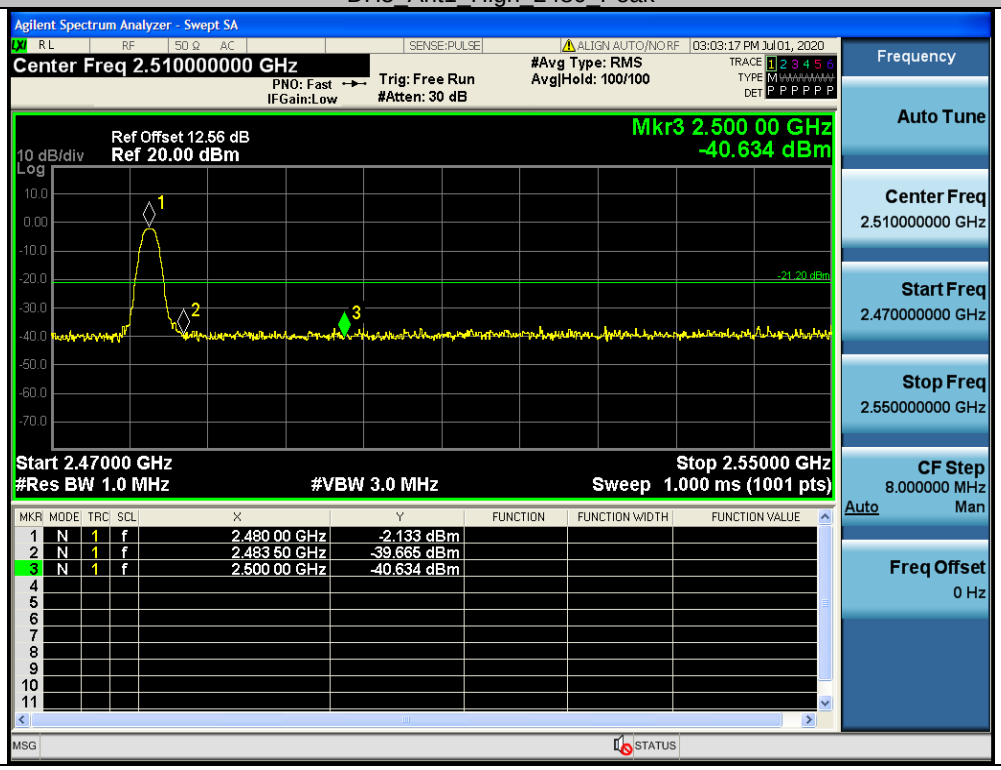
DH5_Ant1_Low_2402_Peak



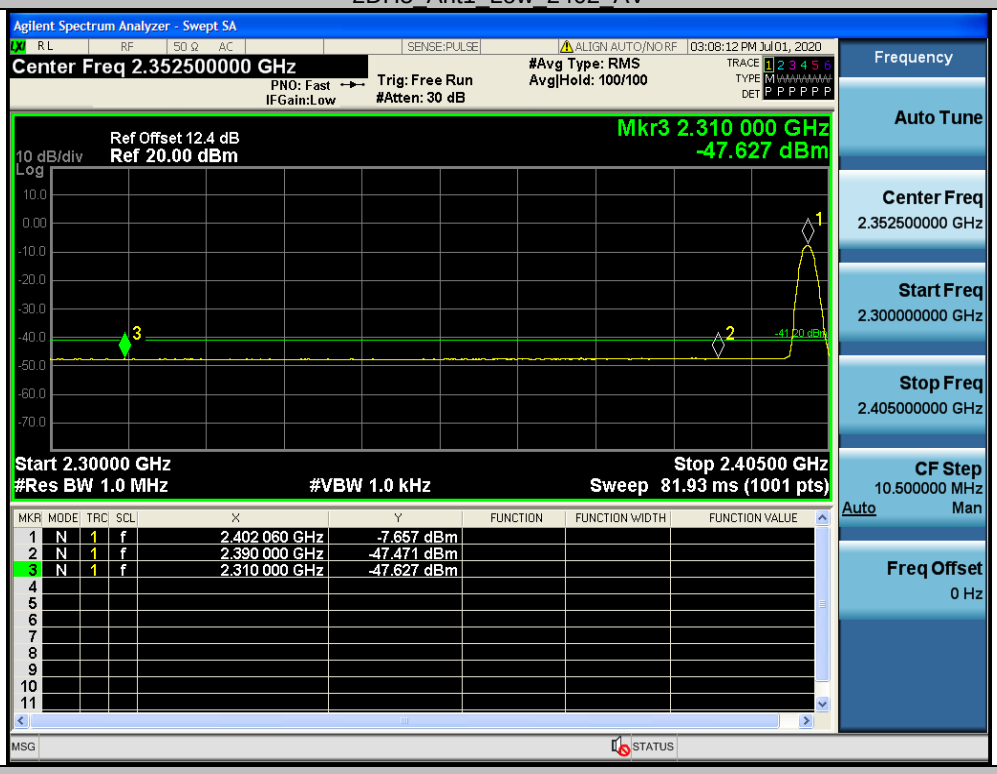
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_2402_AV



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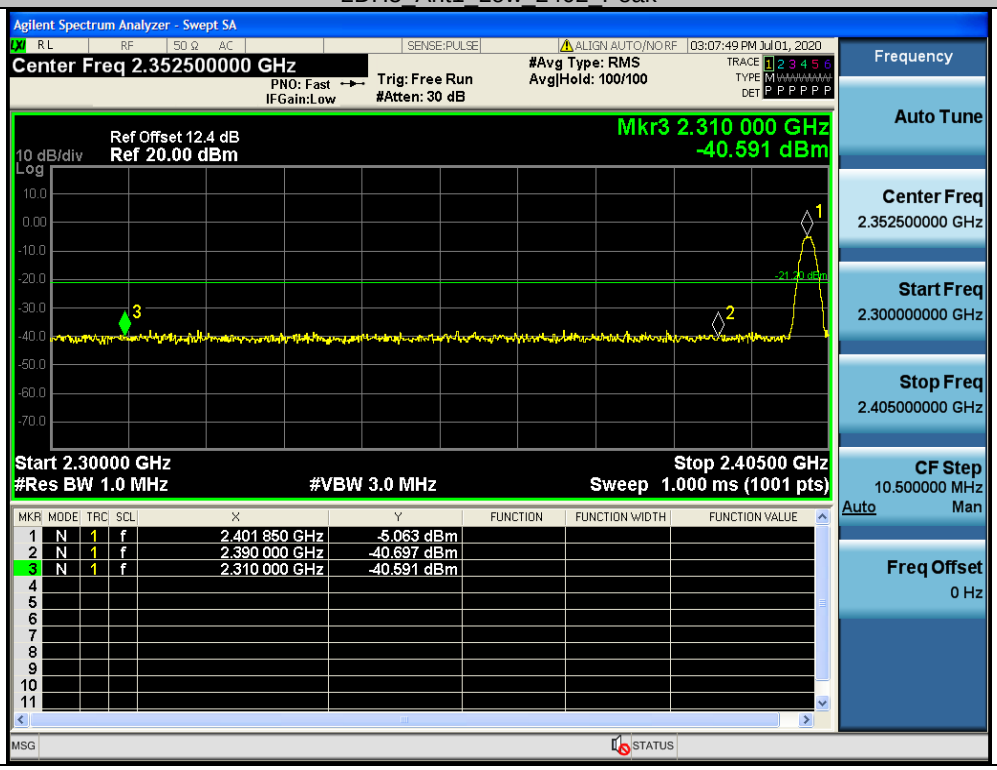

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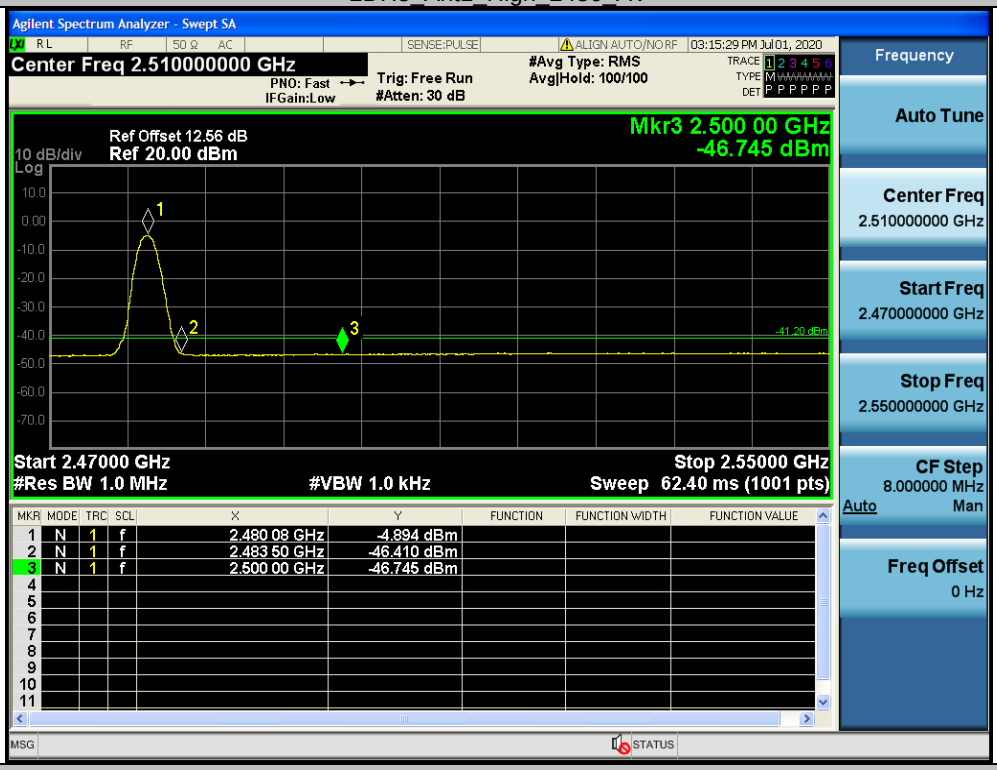

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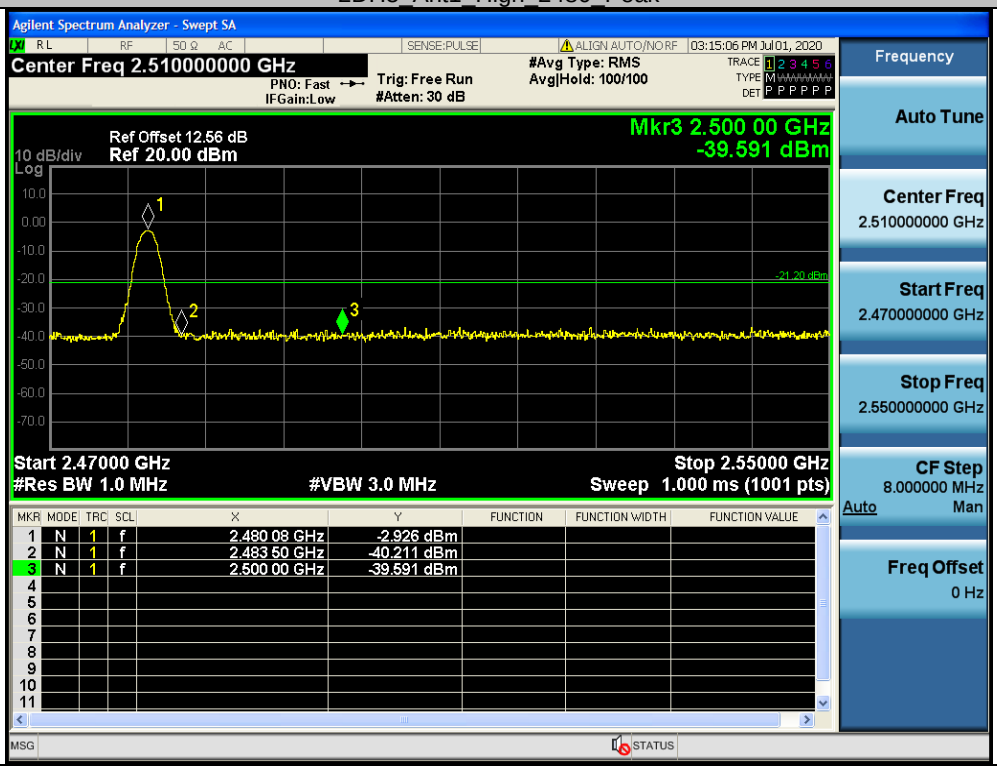

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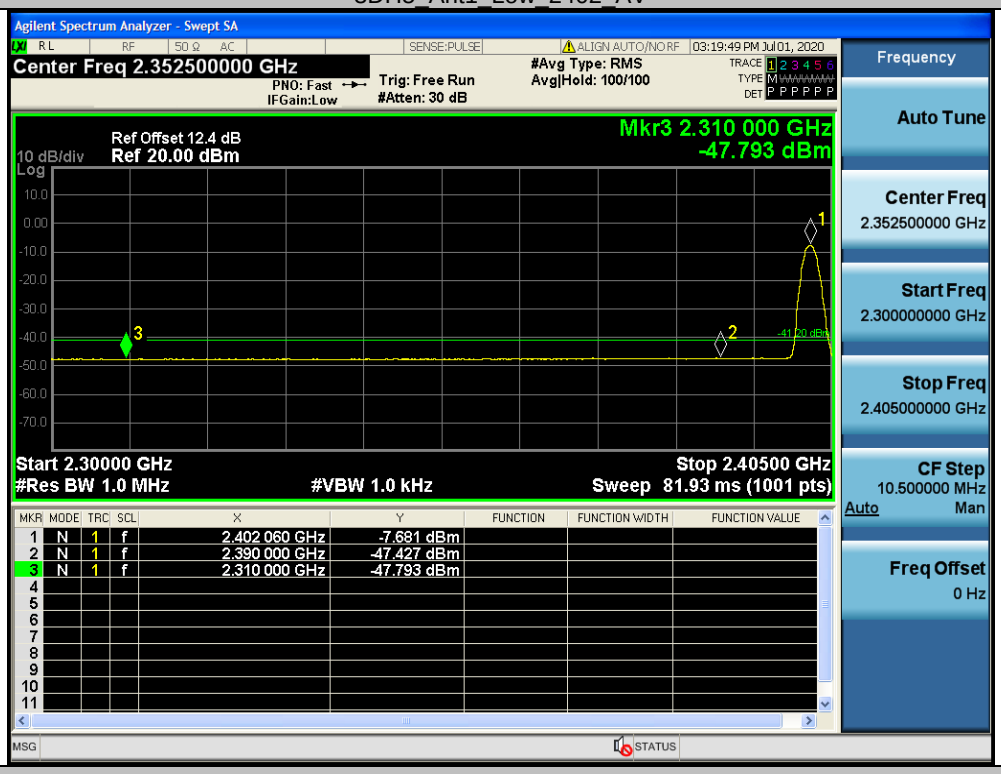

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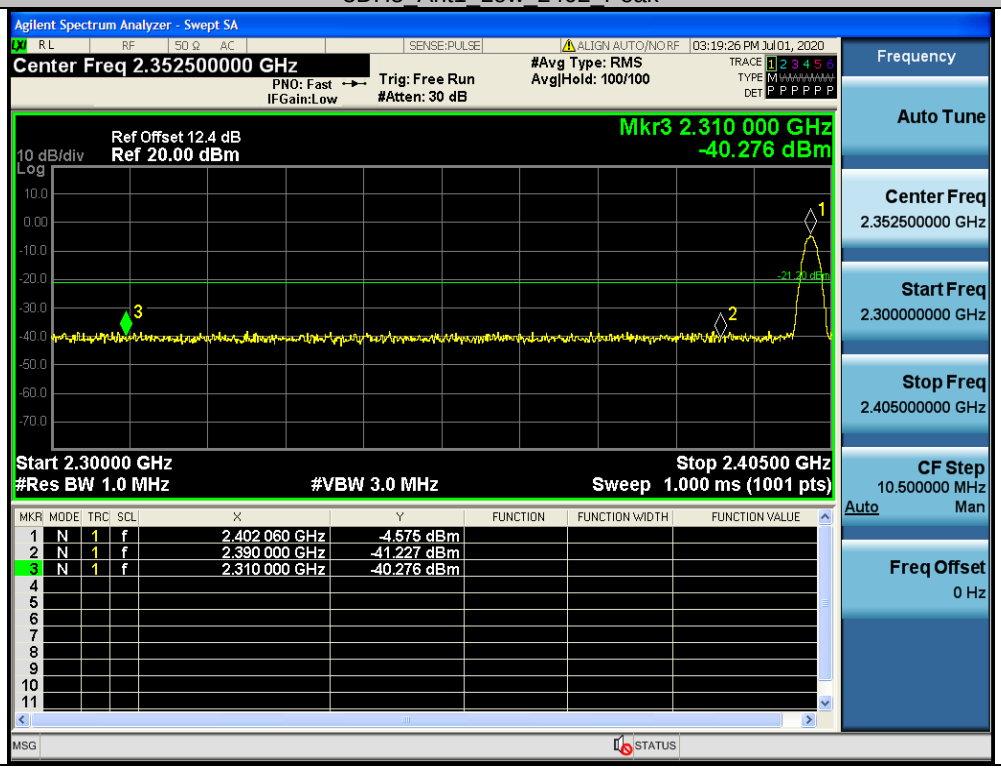
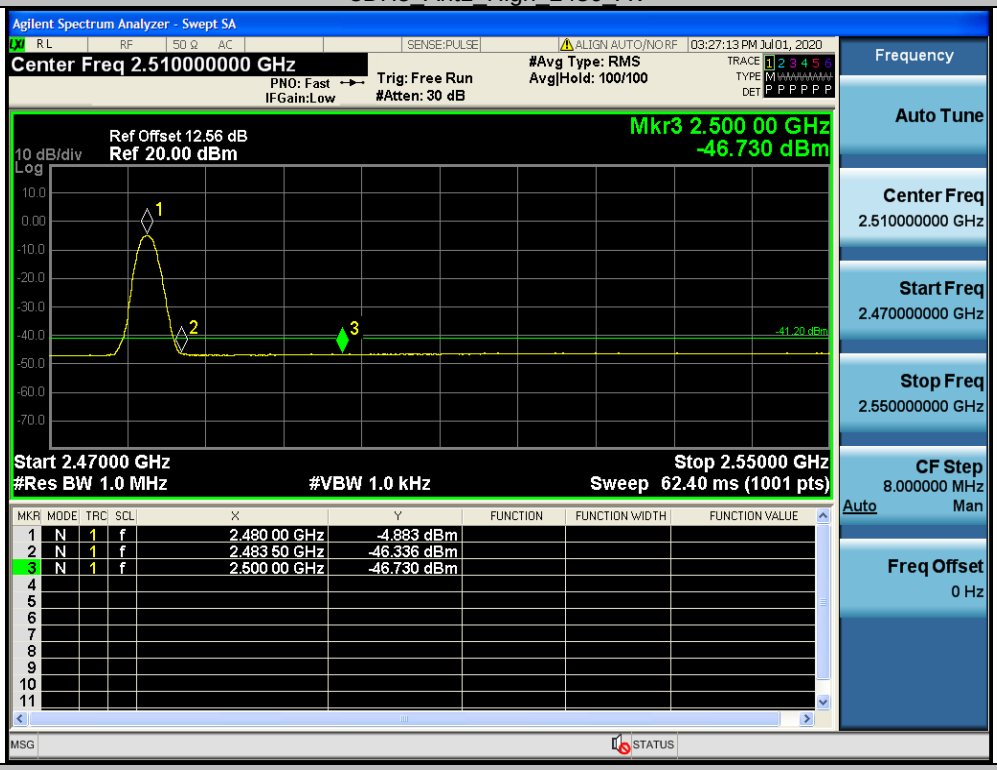
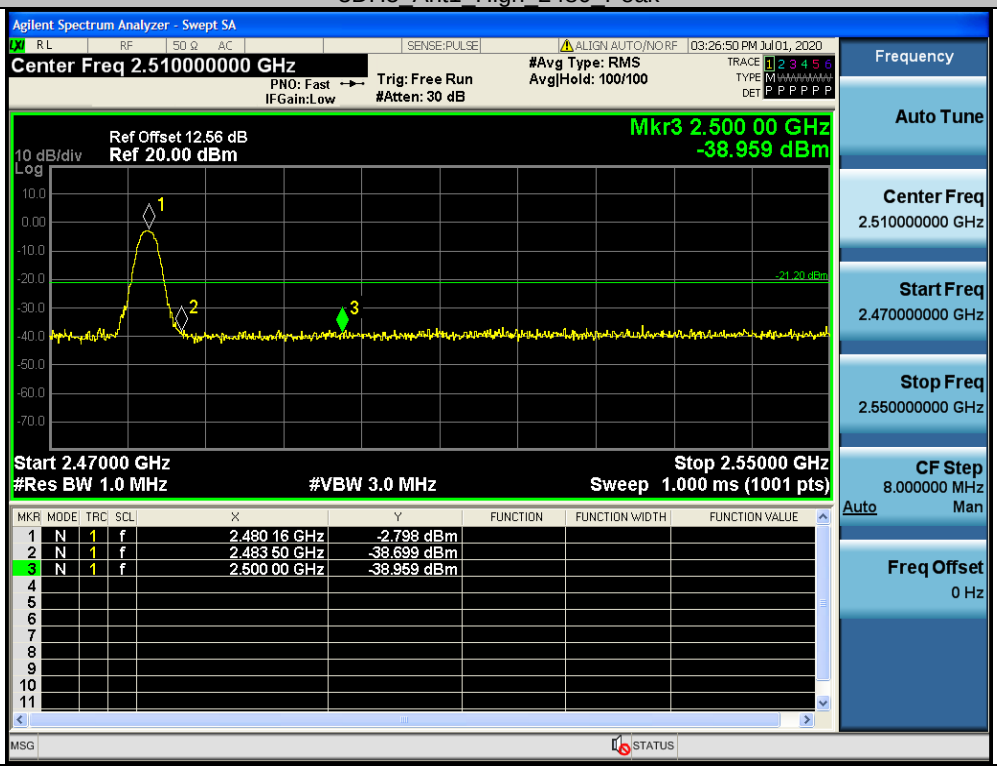


3DH5_Ant1_High_2480_AV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