

Appendix A

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

Product Name: Mobile phone

Trade Mark: FLASH

Test Model: PRIME 1

FCC ID: 2A2LB-PRIME1

Environmental Conditions

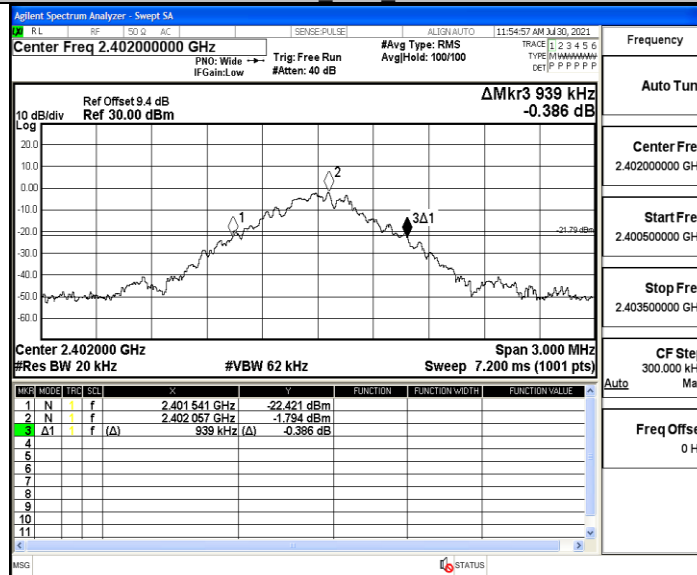
Temperature:	23.8℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

A.1 20 dB Bandwidth

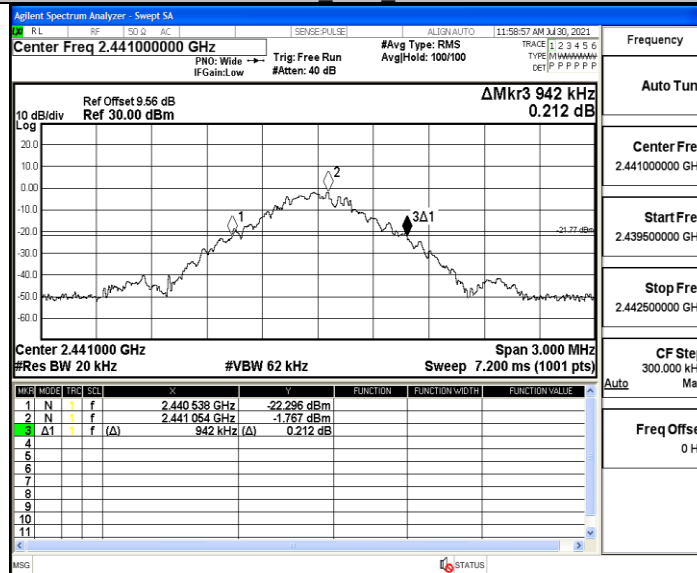
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.541	2402.480	---	PASS
		2441	0.942	2440.538	2441.480	---	PASS
		2480	0.936	2479.535	2480.471	---	PASS
2DH5	Ant1	2402	1.350	2401.331	2402.681	---	PASS
		2441	1.323	2440.337	2441.660	---	PASS
		2480	1.311	2479.343	2480.654	---	PASS
3DH5	Ant1	2402	1.278	2401.352	2402.630	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.269	2479.358	2480.627	---	PASS

Test Graph

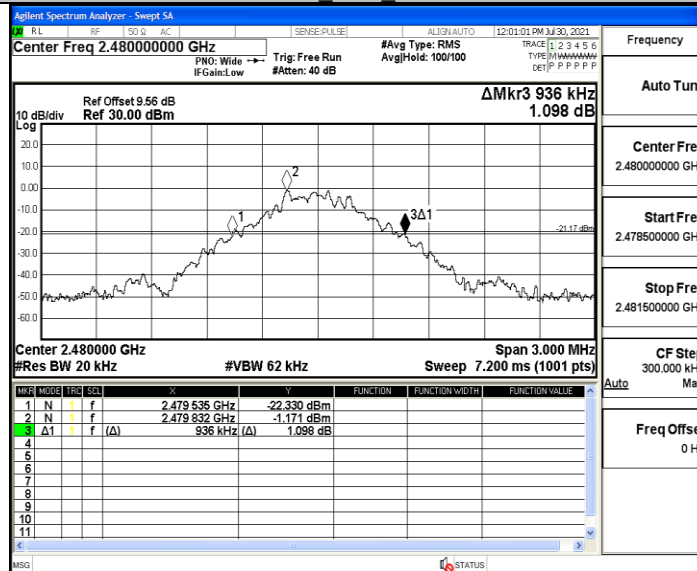
DH5_Ant1_2402



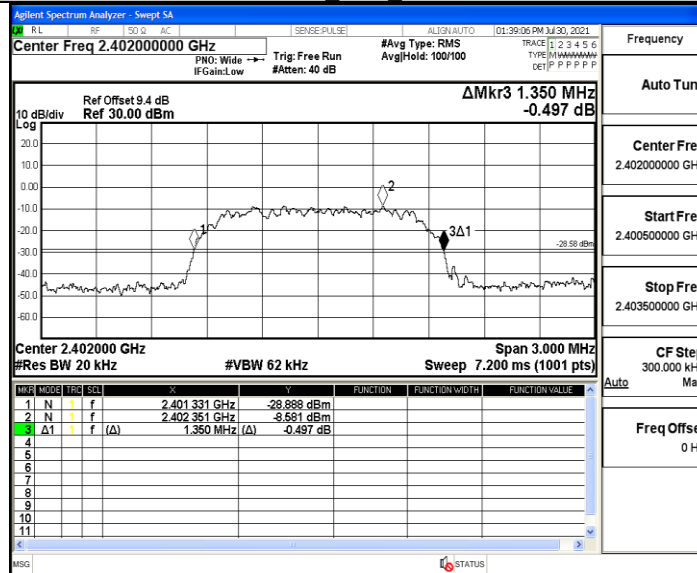
DH5_Ant1_2441



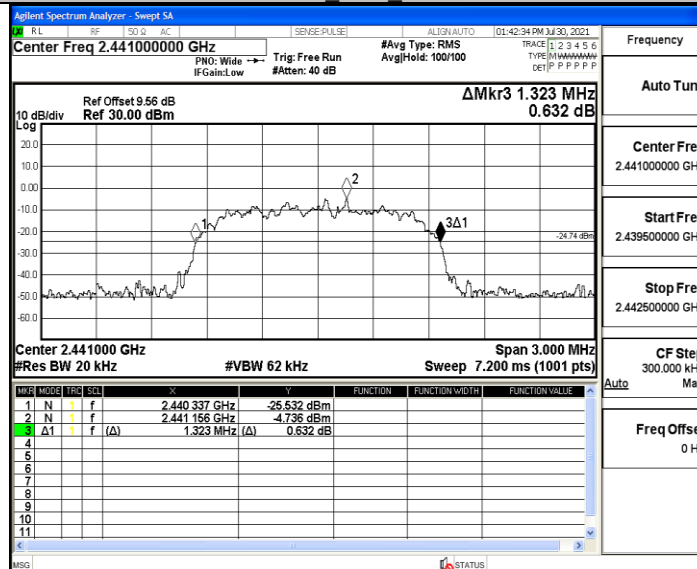
DH5_Ant1_2480



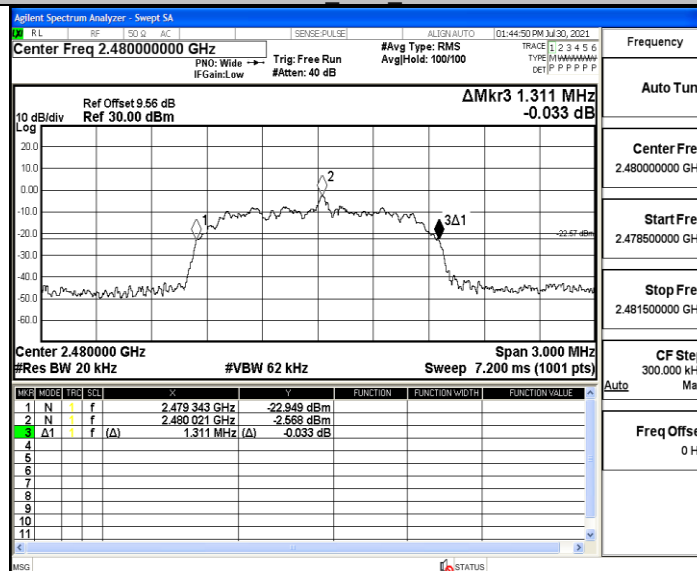
2DH5_Ant1_2402



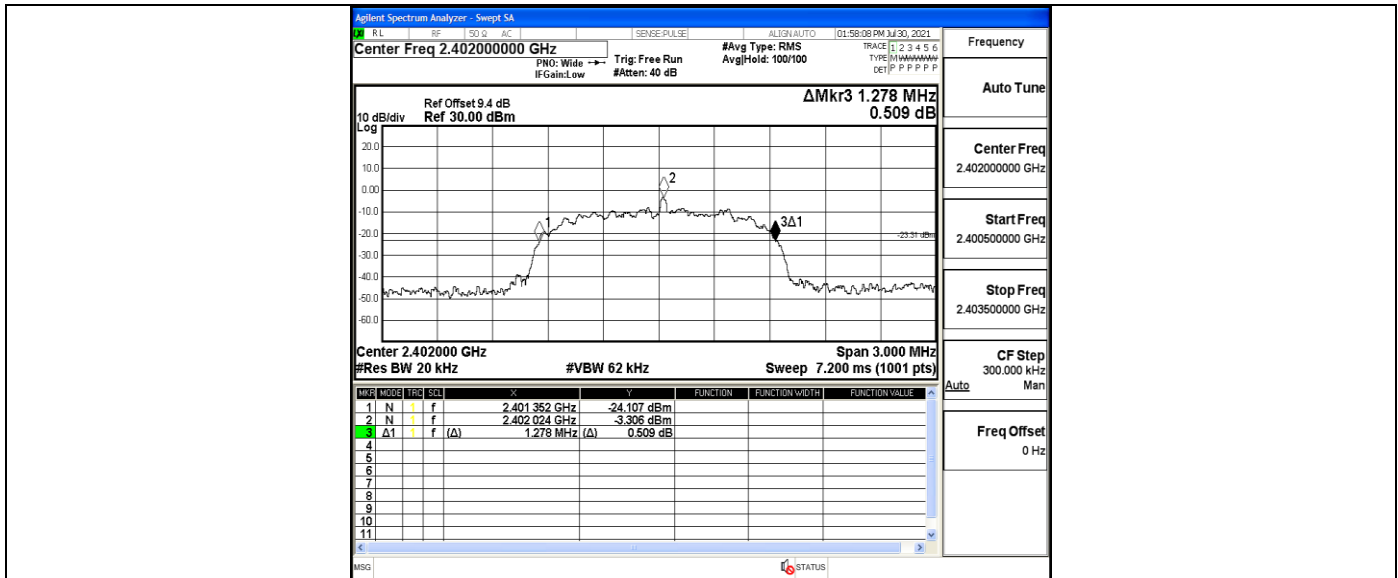
2DH5_Ant1_2441



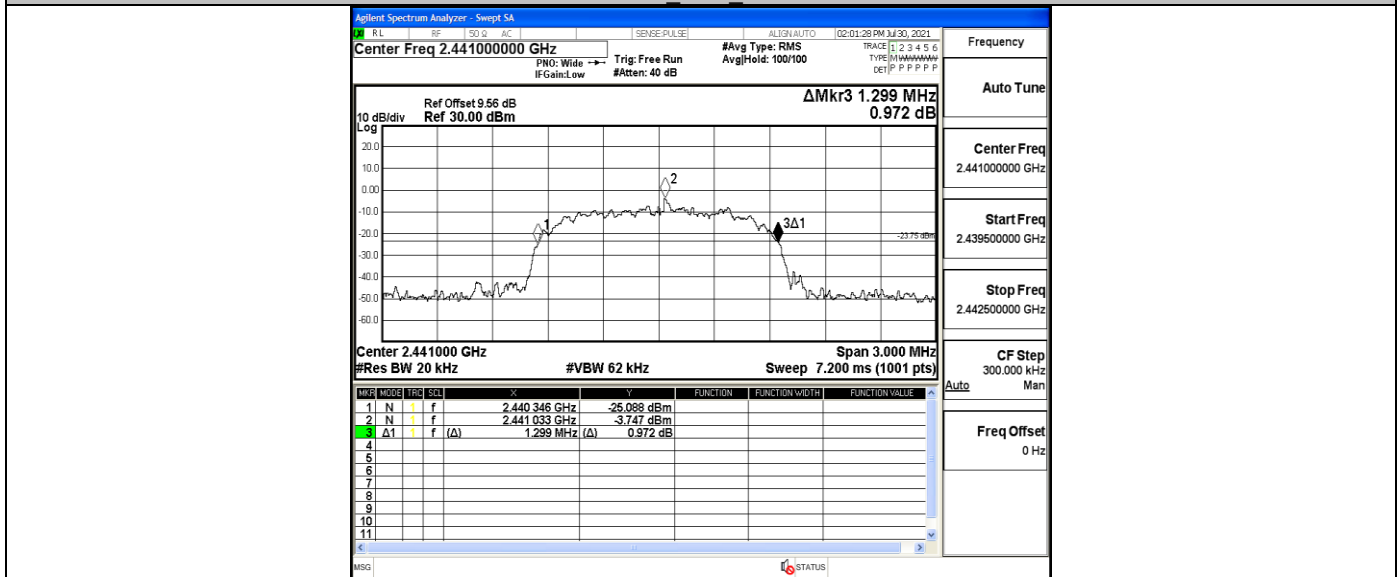
2DH5_Ant1_2480



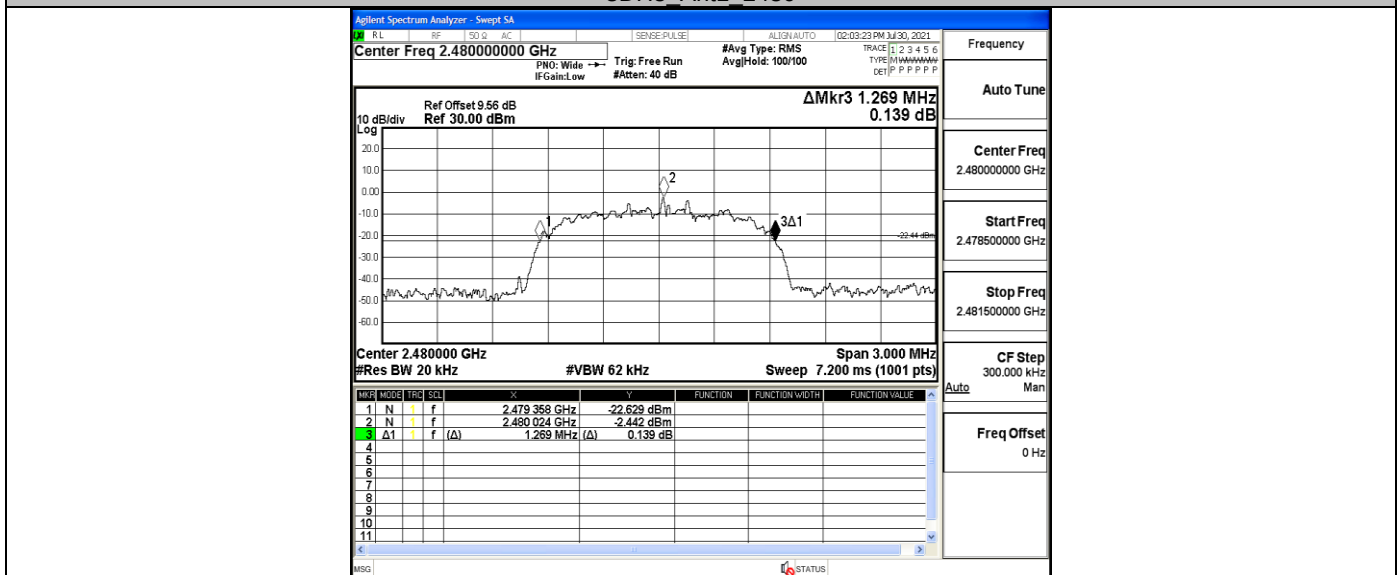
3DH5_Ant1_2402



3DH5 Ant1 2441



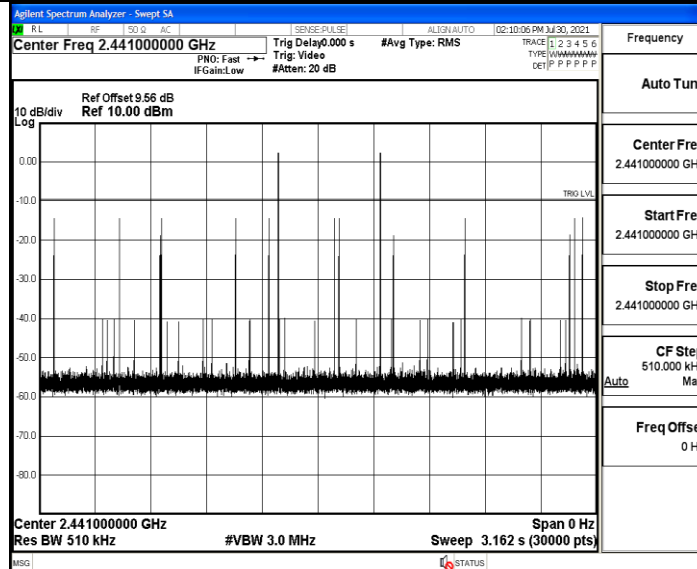
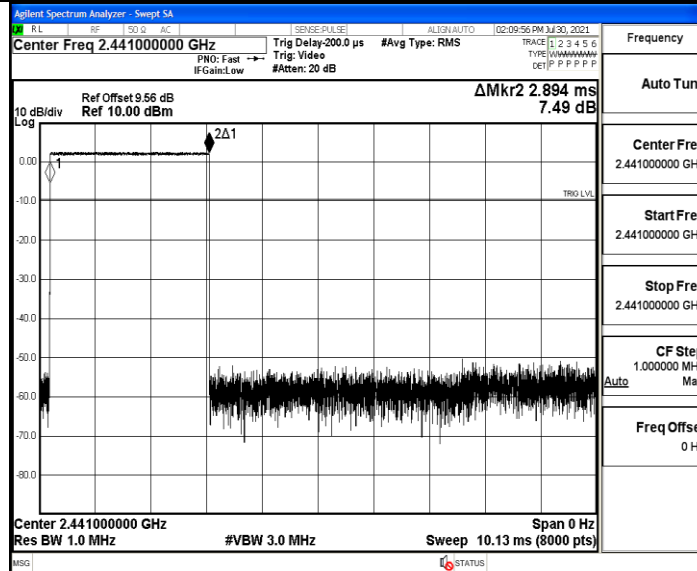
3DH5 Ant1 2480



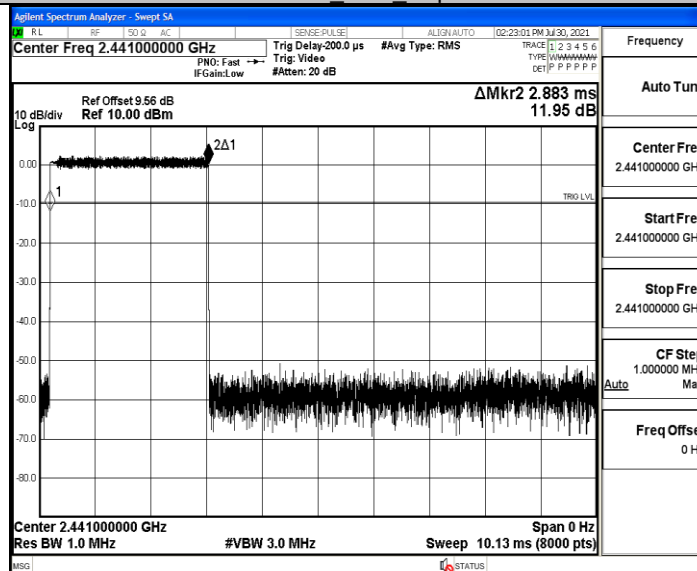
A.2 Dwell Time

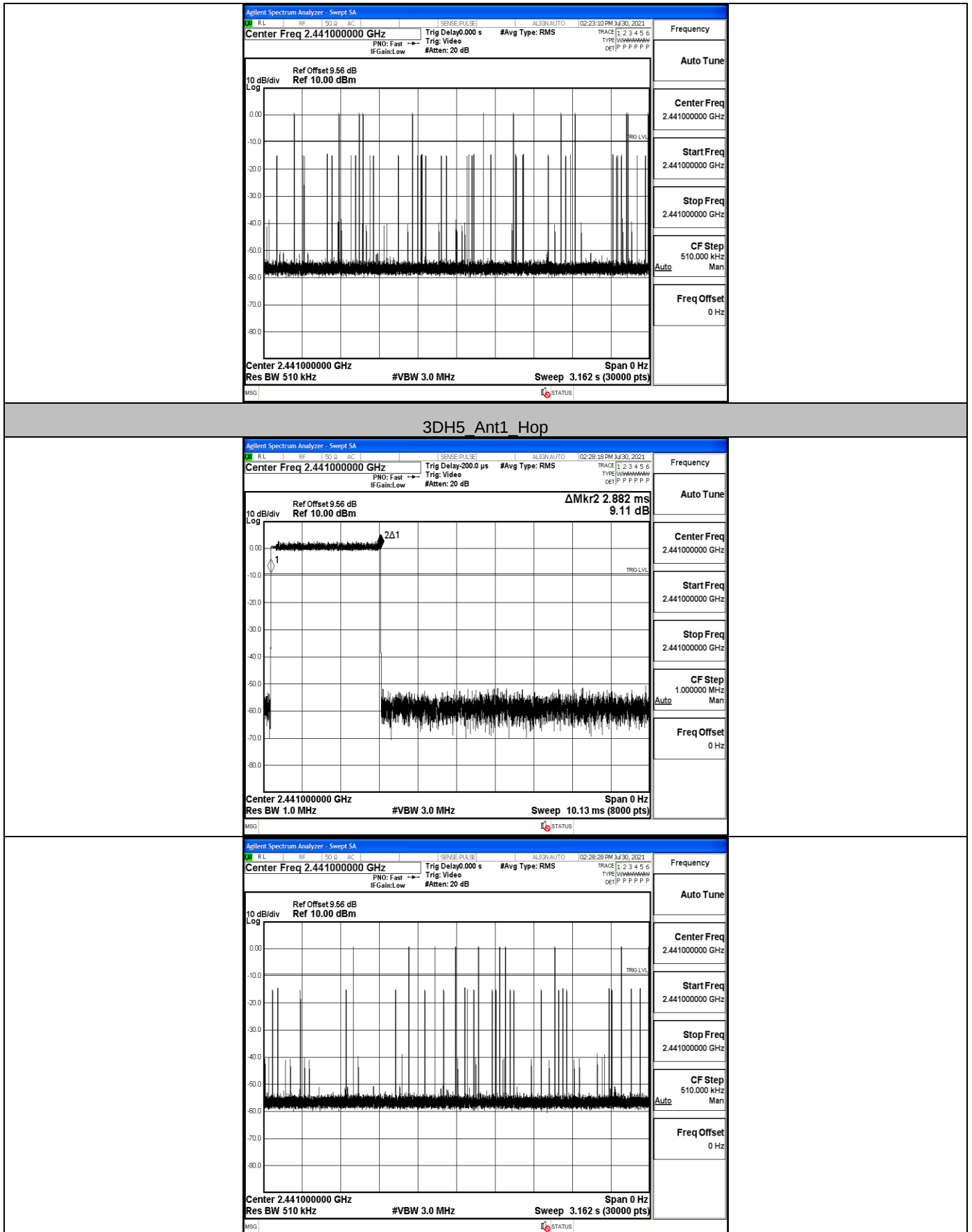
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	30	0.087	≤0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

DH5_Ant1_Hop



2DH5_Ant1_Hop



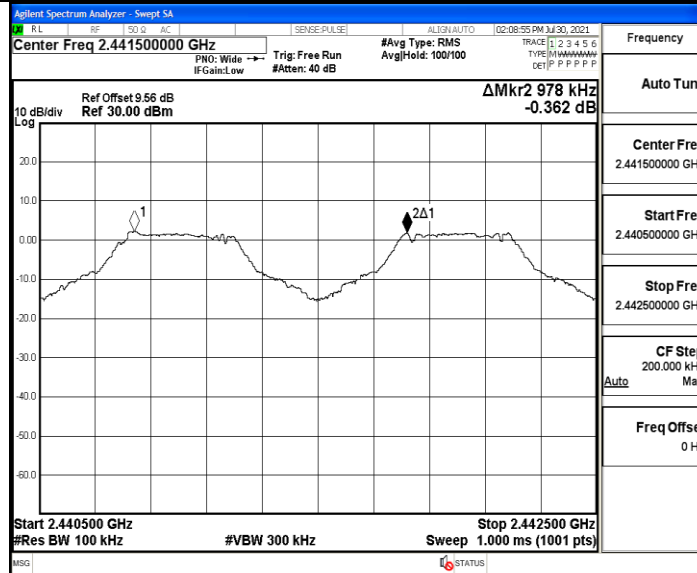


A.3 Carrier Frequency Separation

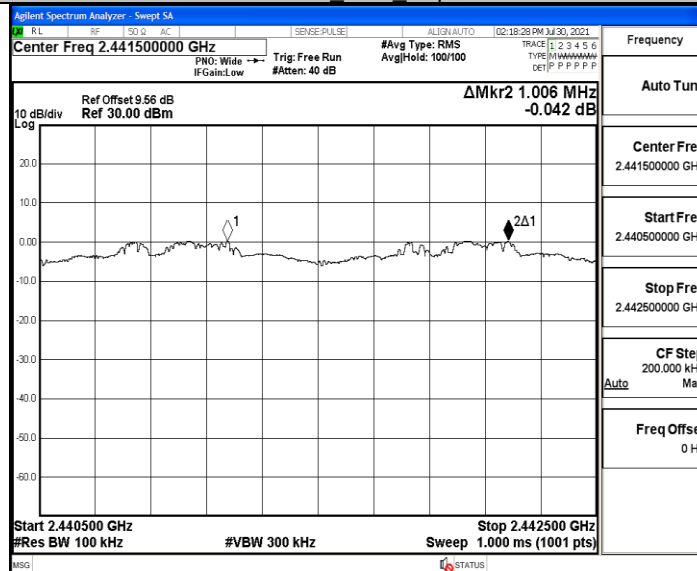
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.978	≥ 0.942	PASS
2DH5	Ant1	Hop	1.006	≥ 0.900	PASS
3DH5	Ant1	Hop	0.974	≥ 0.866	PASS

Test Graph

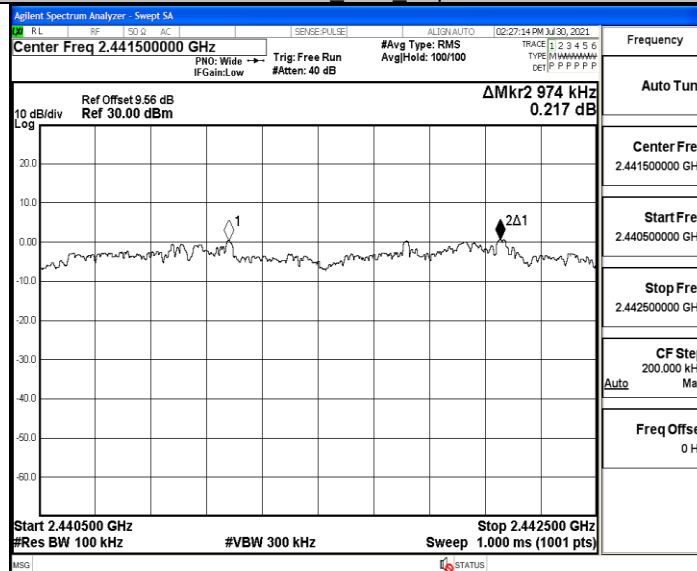
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

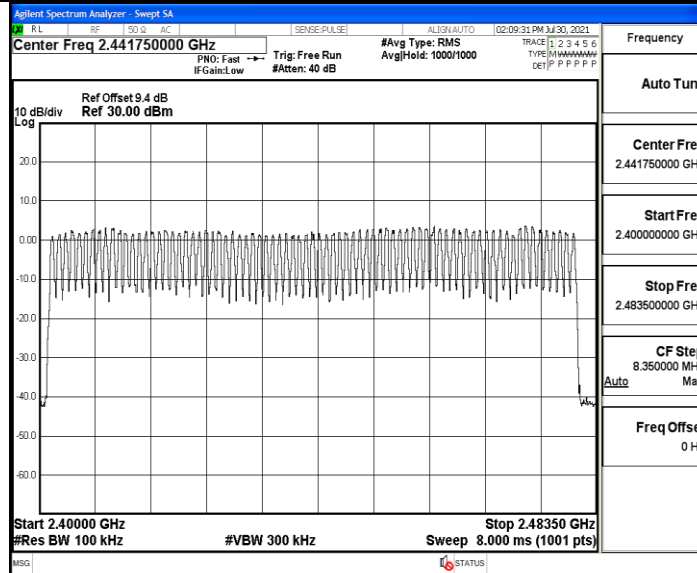


A.4 Hopping Channel Number

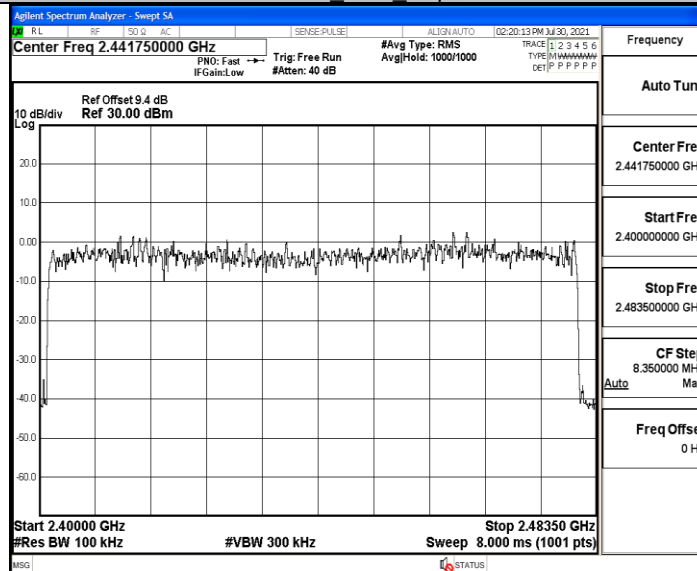
Mode	Channel.	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graph

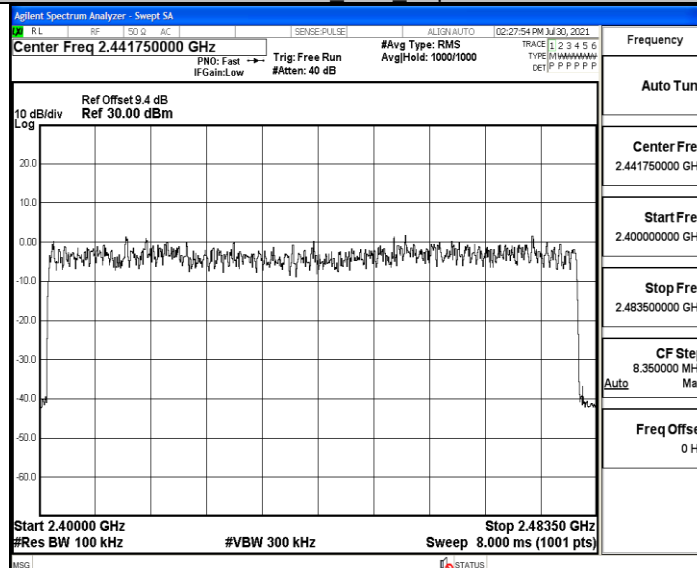
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

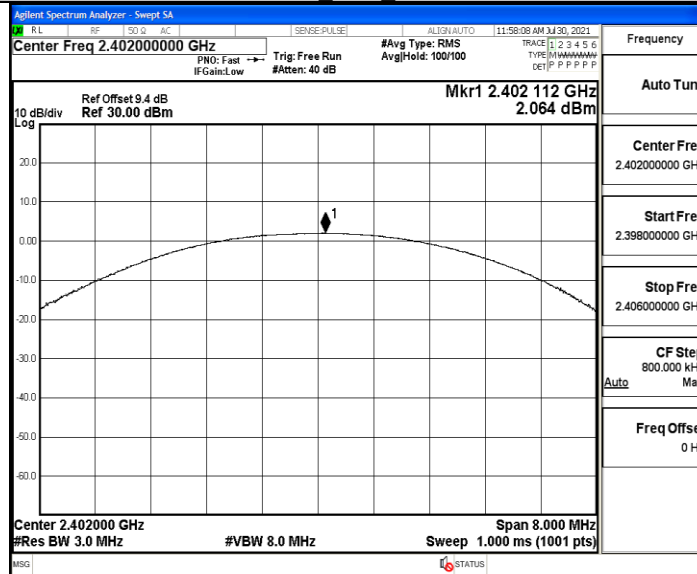


A.5 Conducted Peak Output Power

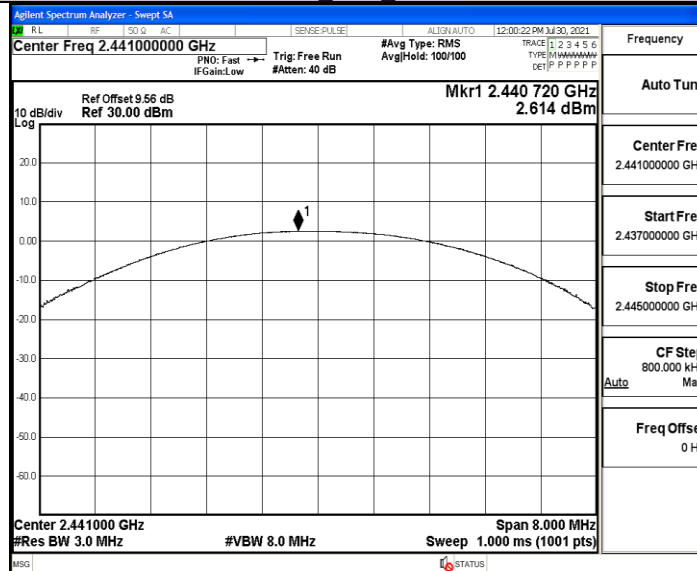
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.06	≤30.00	PASS
		2441	2.61	≤30.00	PASS
		2480	2.49	≤30.00	PASS
2DH5	Ant1	2402	2.02	≤20.97	PASS
		2441	3.07	≤20.97	PASS
		2480	3.18	≤20.97	PASS
3DH5	Ant1	2402	2.21	≤20.97	PASS
		2441	3.28	≤20.97	PASS
		2480	3.32	≤20.97	PASS

Test Graph

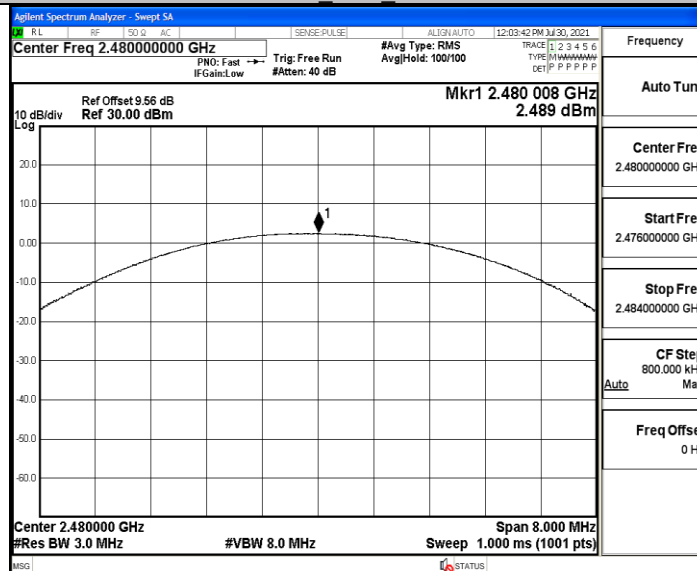
DH5_Ant1_2402



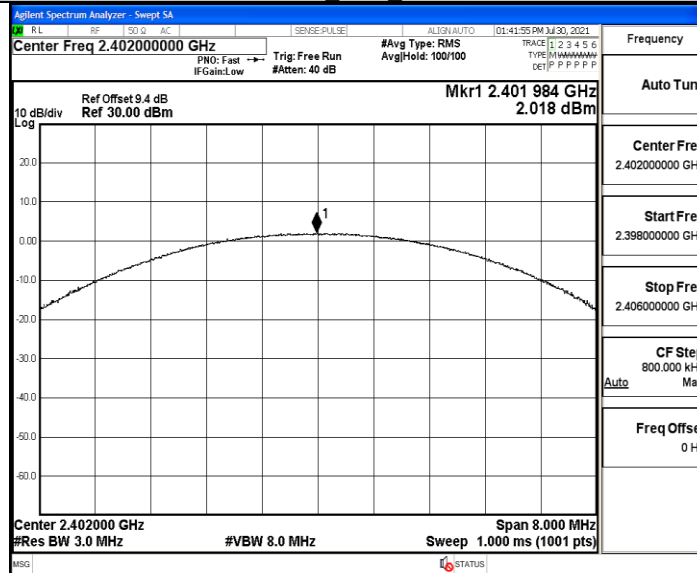
DH5_Ant1_2441



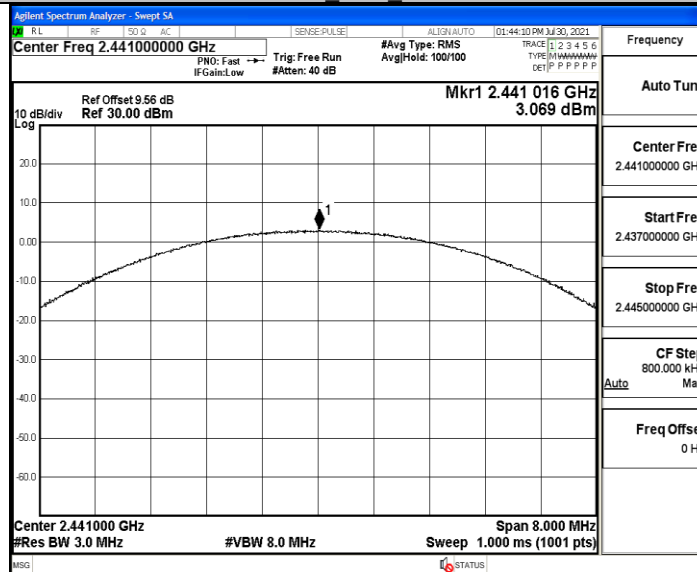
DH5_Ant1_2480



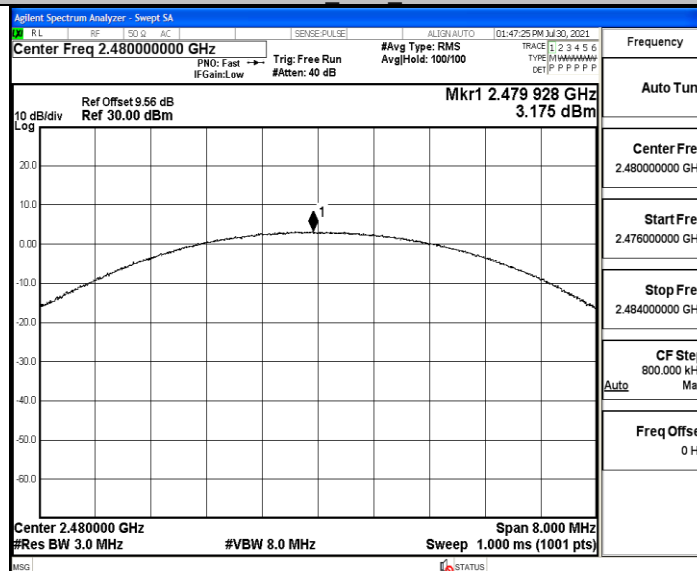
2DH5_Ant1_2402



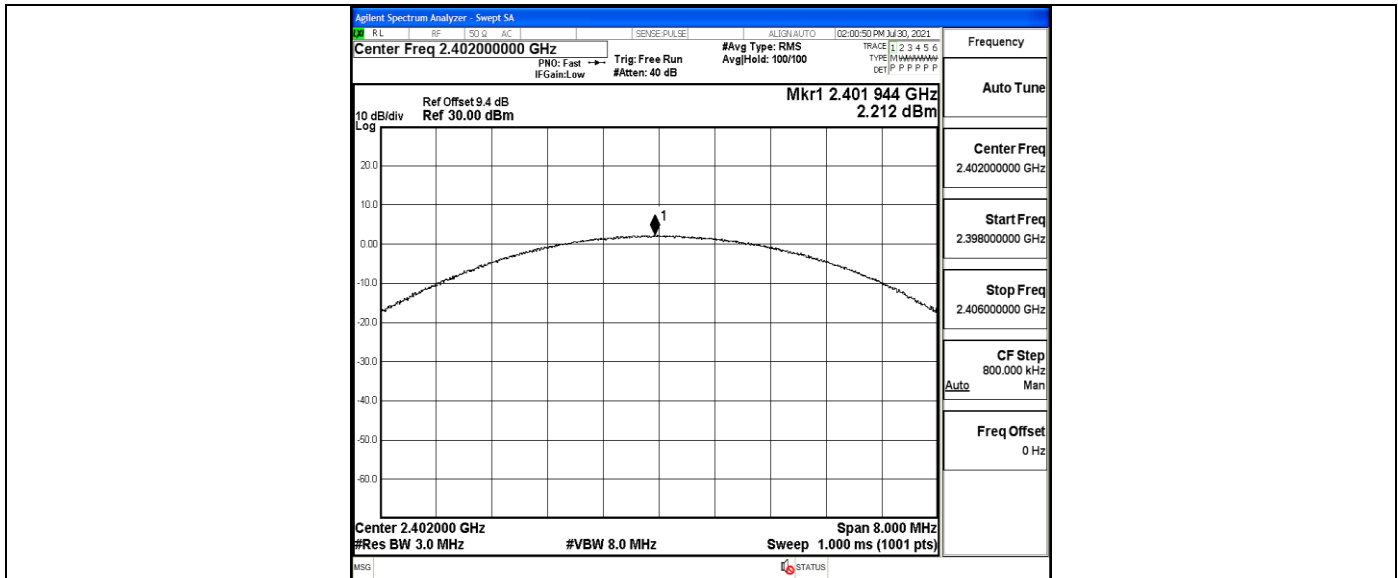
2DH5_Ant1_2441



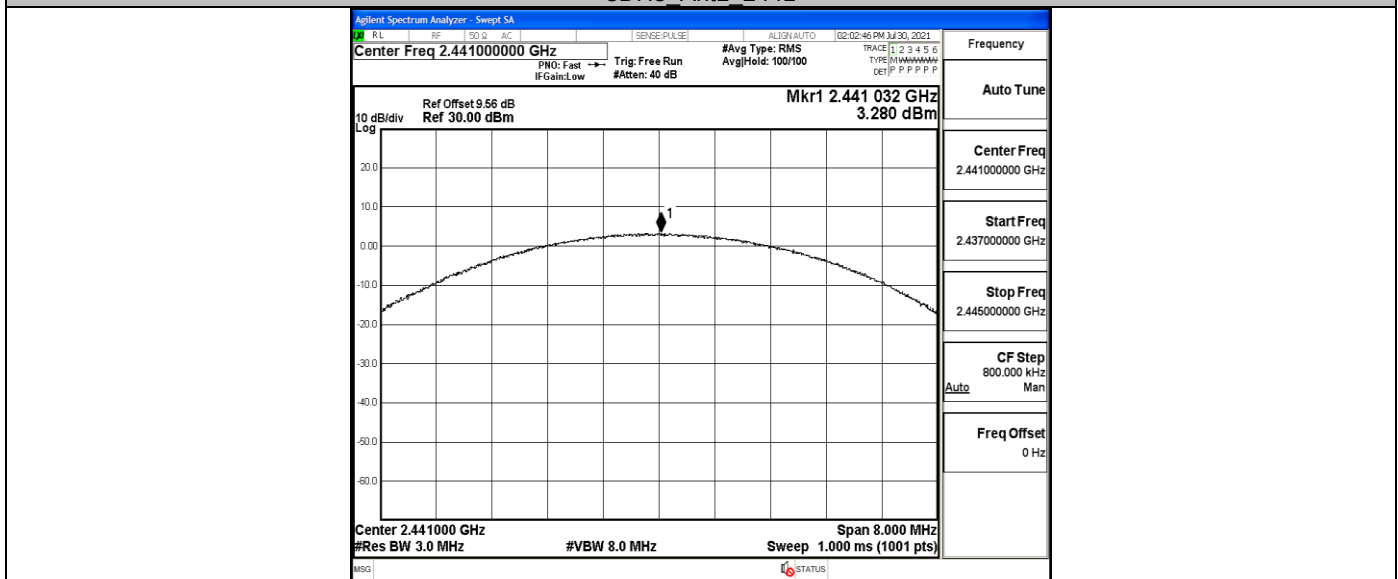
2DH5_Ant1_2480



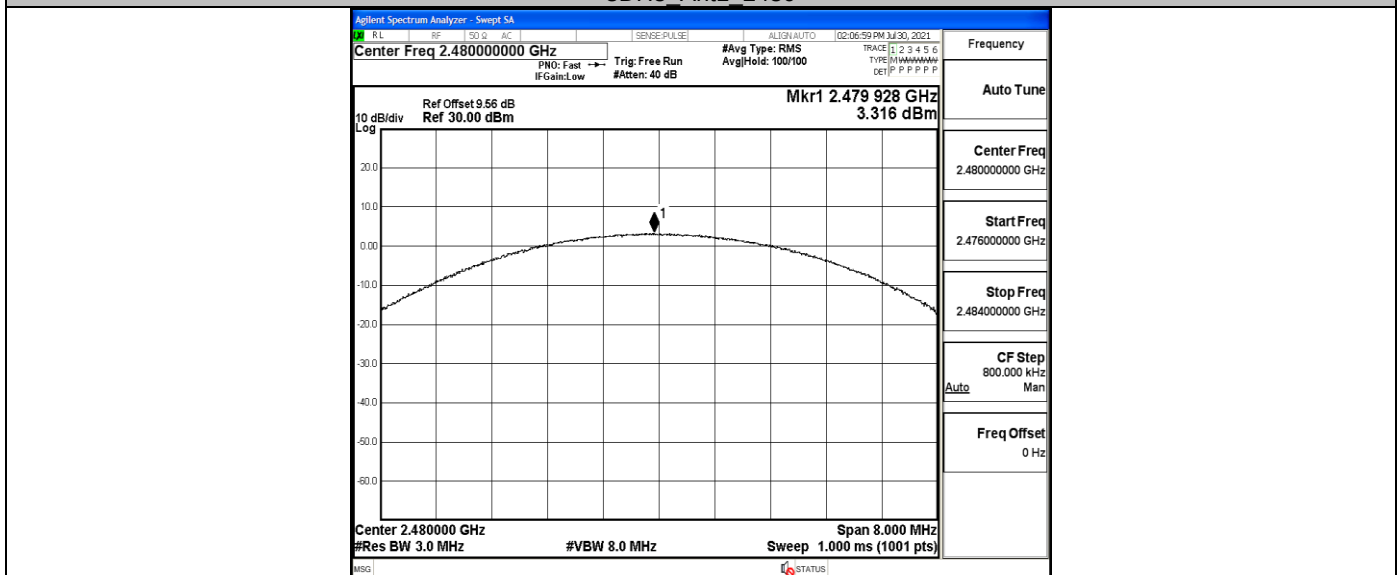
3DH5_Ant1_2402



3DH5 Ant1 2441



3DH5 Ant1 2480

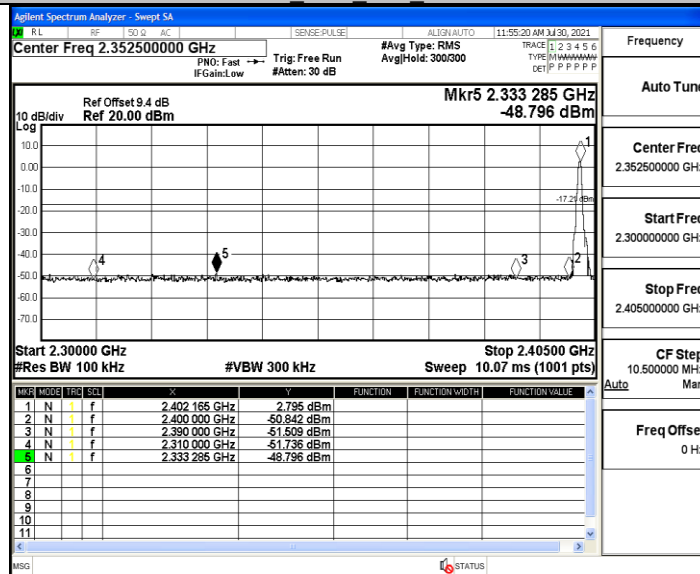


A.6 Band-edge for RF Conducted Emissions

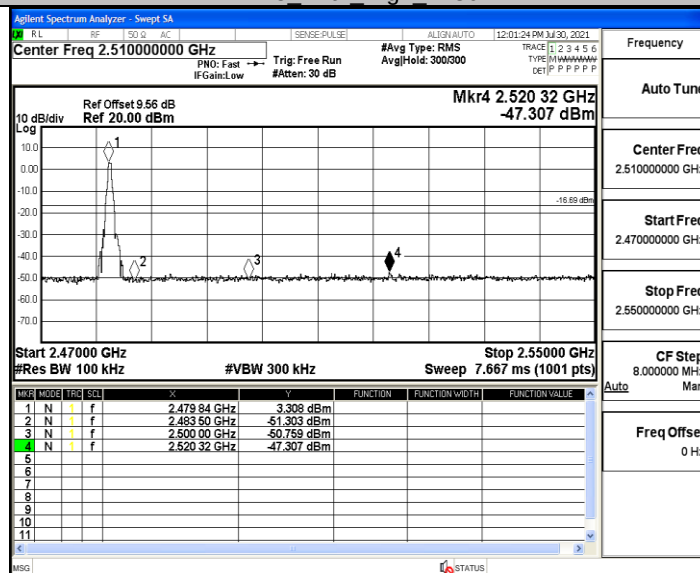
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.80	-48.8	≤ -17.21	PASS
		High	2480	3.31	-47.31	≤ -16.69	PASS
		Low	Hop_2402	3.01	-48.79	≤ -17	PASS
		High	Hop_2480	4.88	-47.95	≤ -15.12	PASS
2DH5	Ant1	Low	2402	1.25	-48.34	≤ -18.75	PASS
		High	2480	1.80	-47.56	≤ -18.2	PASS
		Low	Hop_2402	-1.65	-47.63	≤ -21.65	PASS
		High	Hop_2480	1.21	-47.55	≤ -18.79	PASS
3DH5	Ant1	Low	2402	1.33	-48.32	≤ -18.67	PASS
		High	2480	2.29	-47.05	≤ -17.71	PASS
		Low	Hop_2402	-1.37	-48.65	≤ -21.37	PASS
		High	Hop_2480	2.48	-48.17	≤ -17.52	PASS

Test Graph

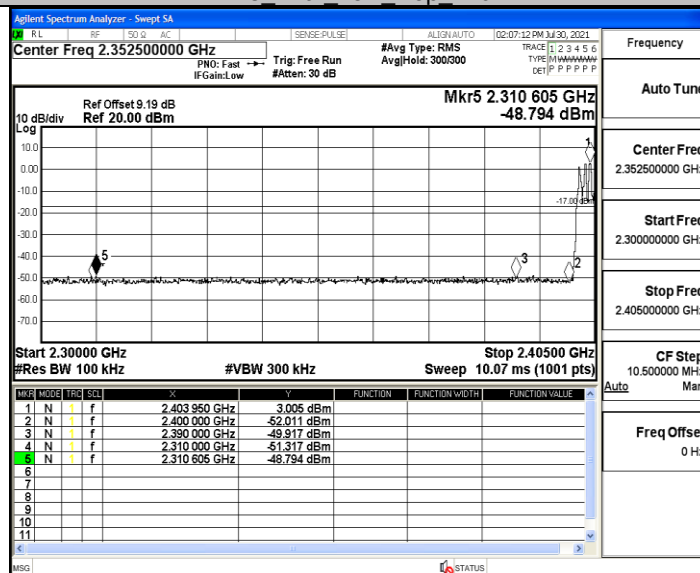
DH5_Ant1_Low_2402



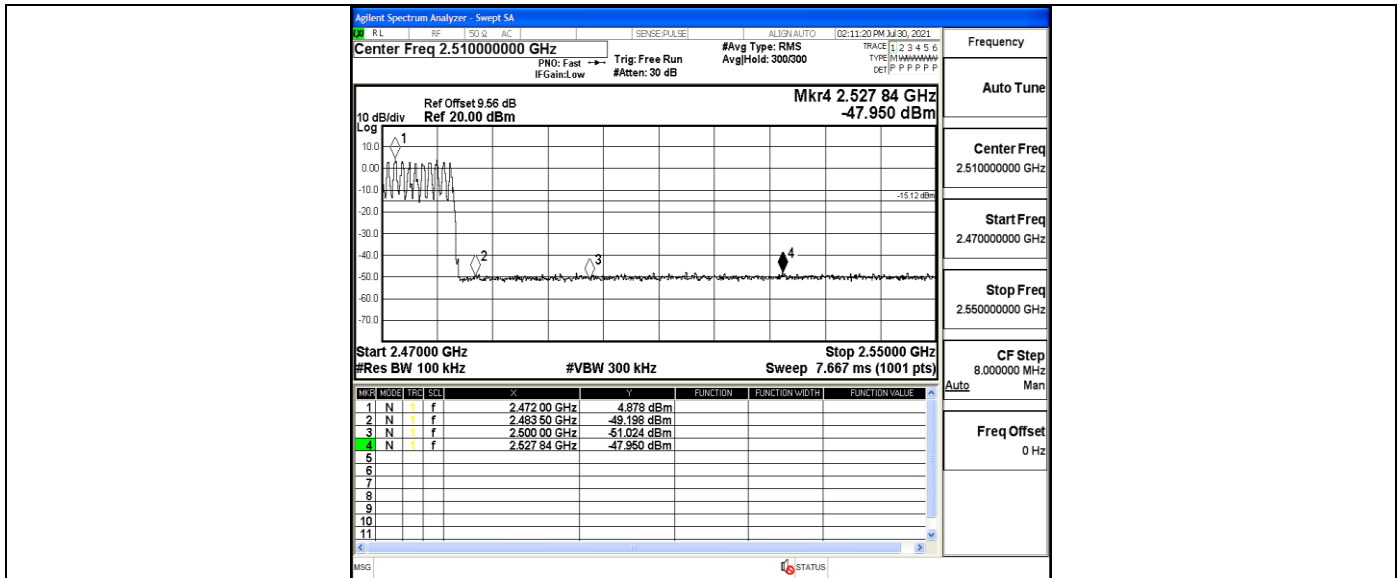
DH5_Ant1_High_2480



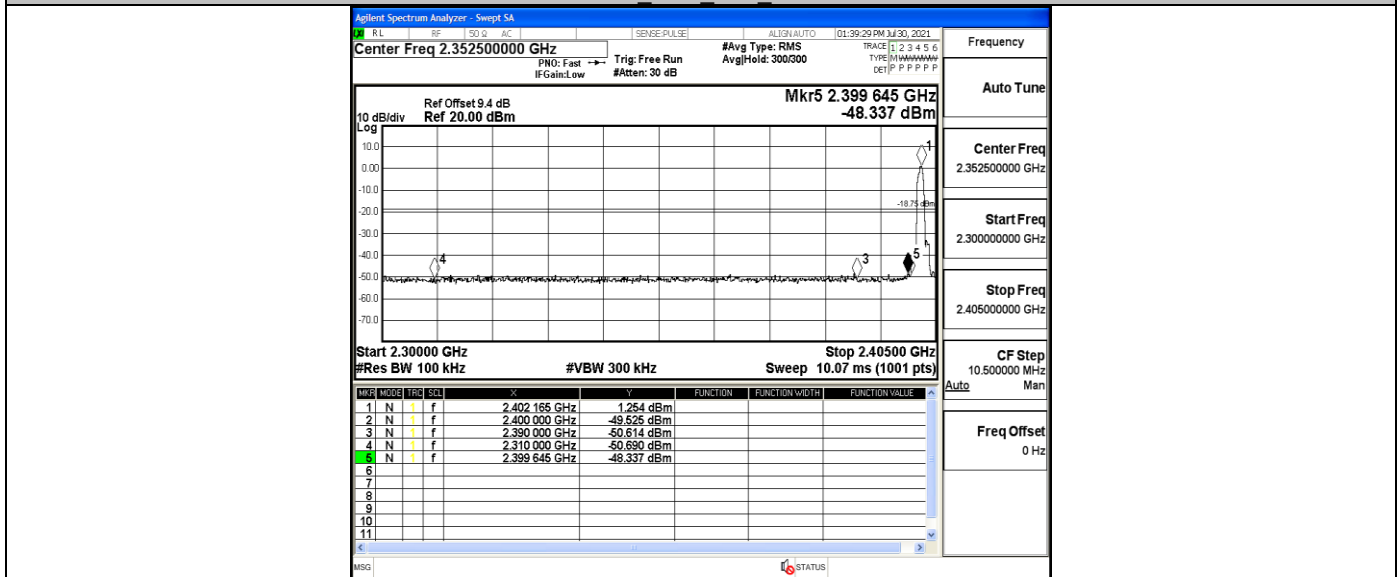
DH5_Ant1_Low_Hop_2402



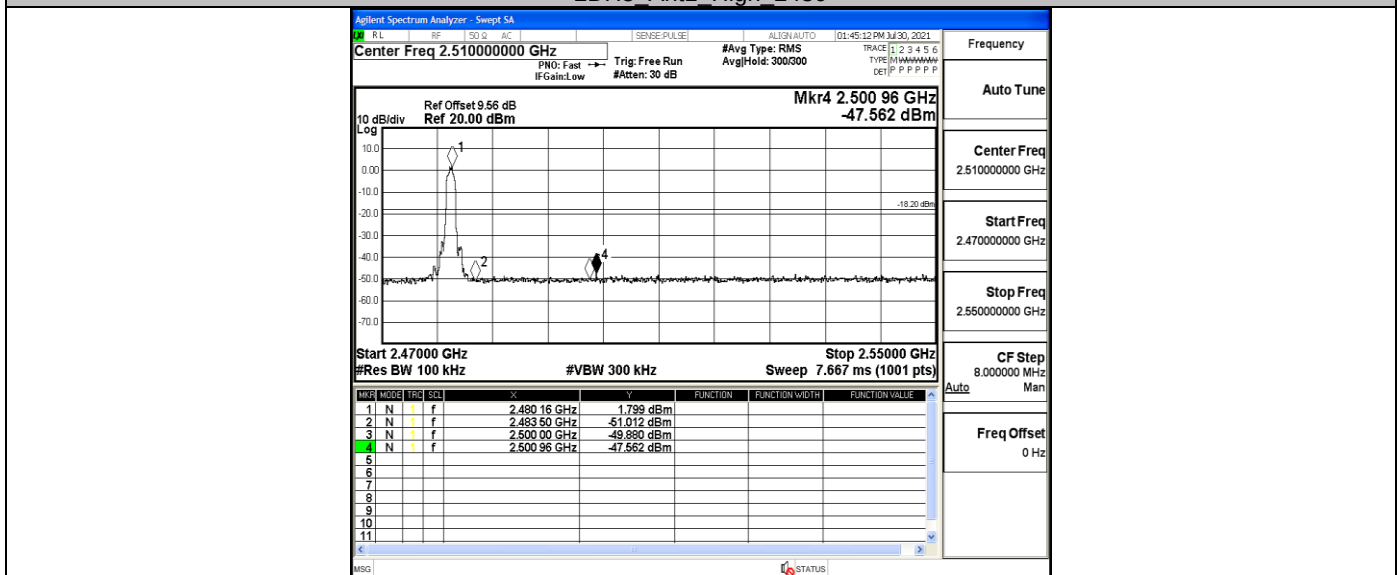
DH5_Ant1_High_Hop_2480



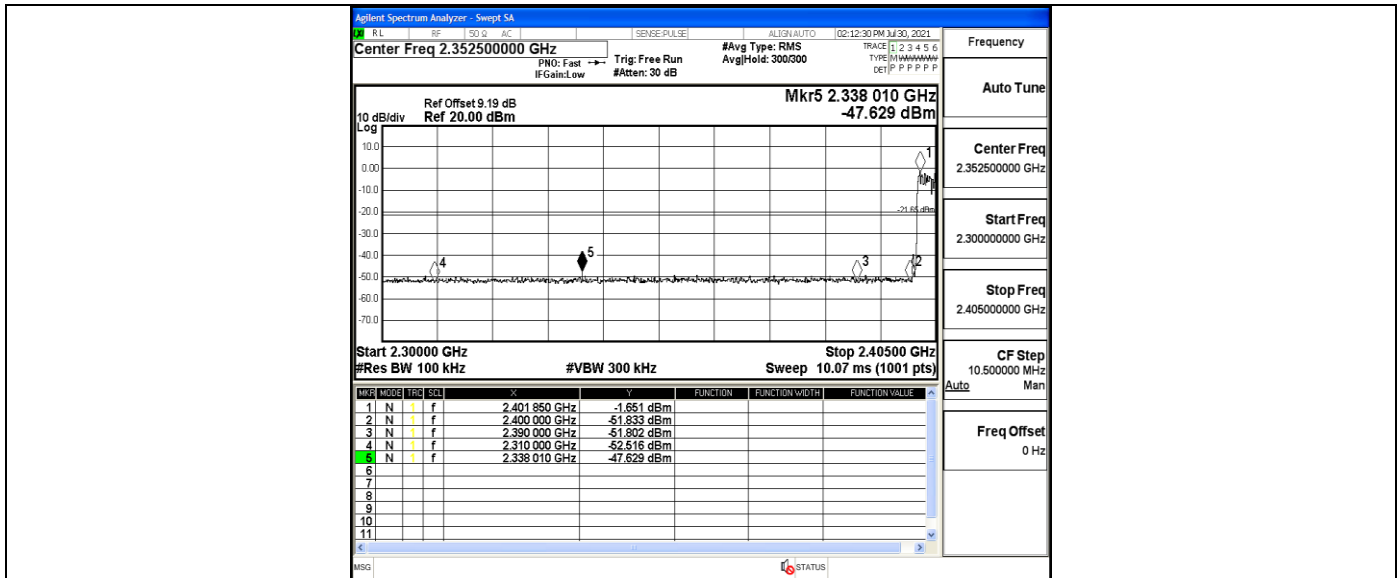
2DH5_Ant1_Low_2402



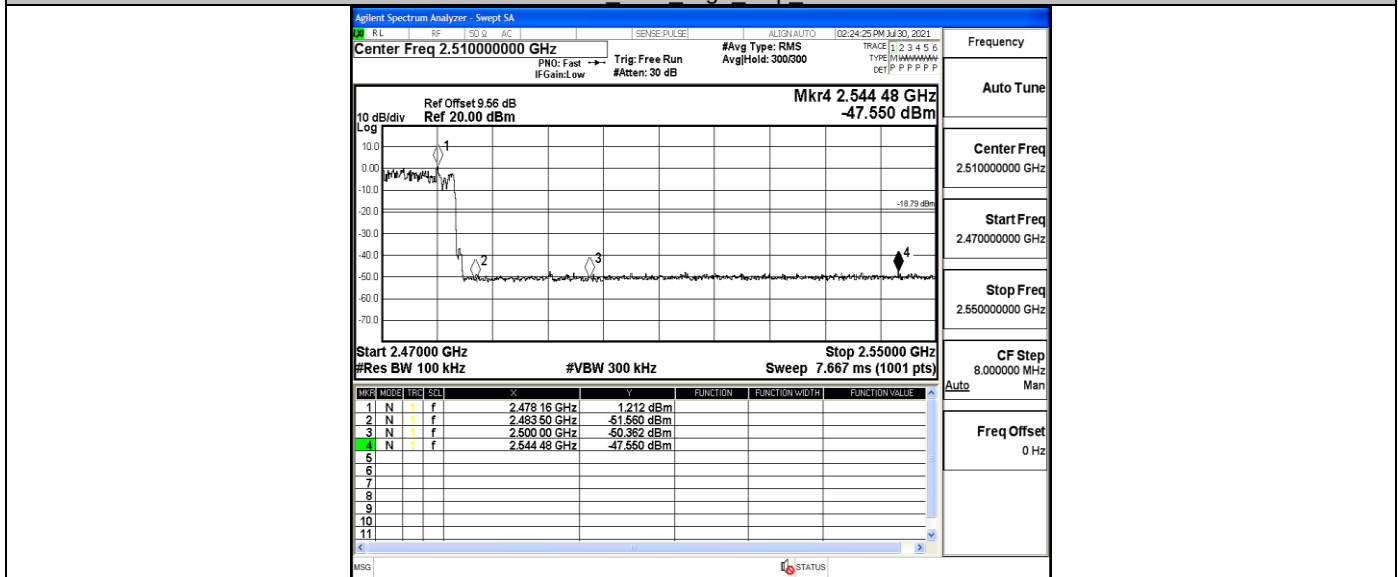
2DH5_Ant1_High_2480



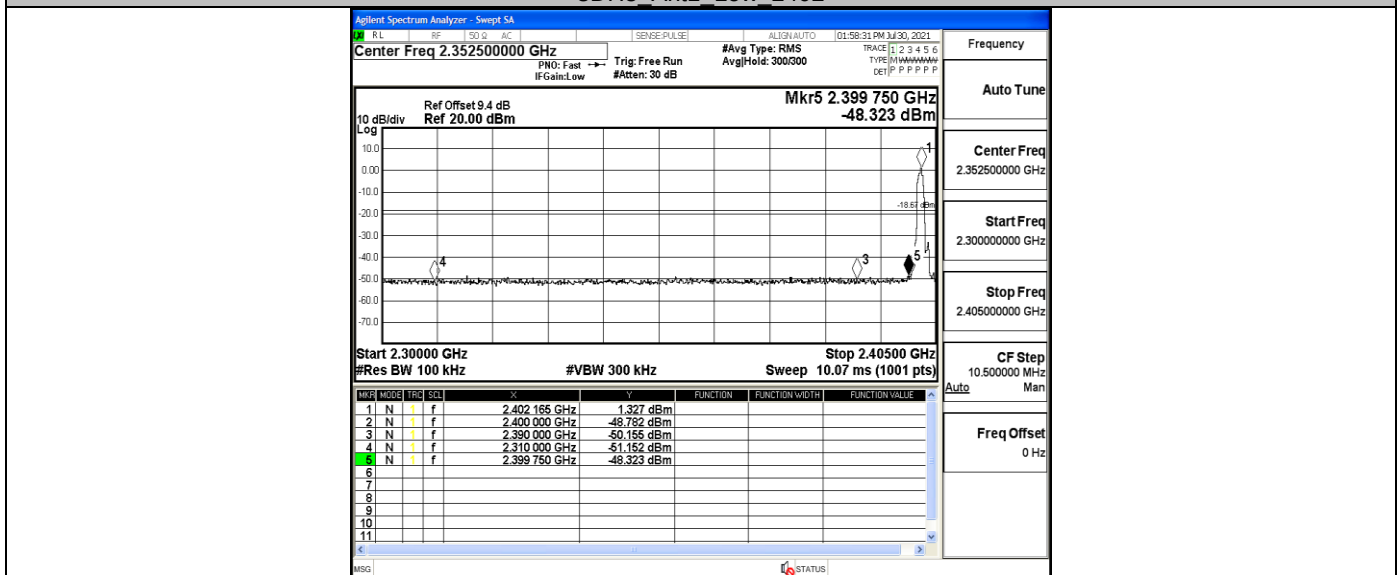
2DH5_Ant1_Low_Hop_2402



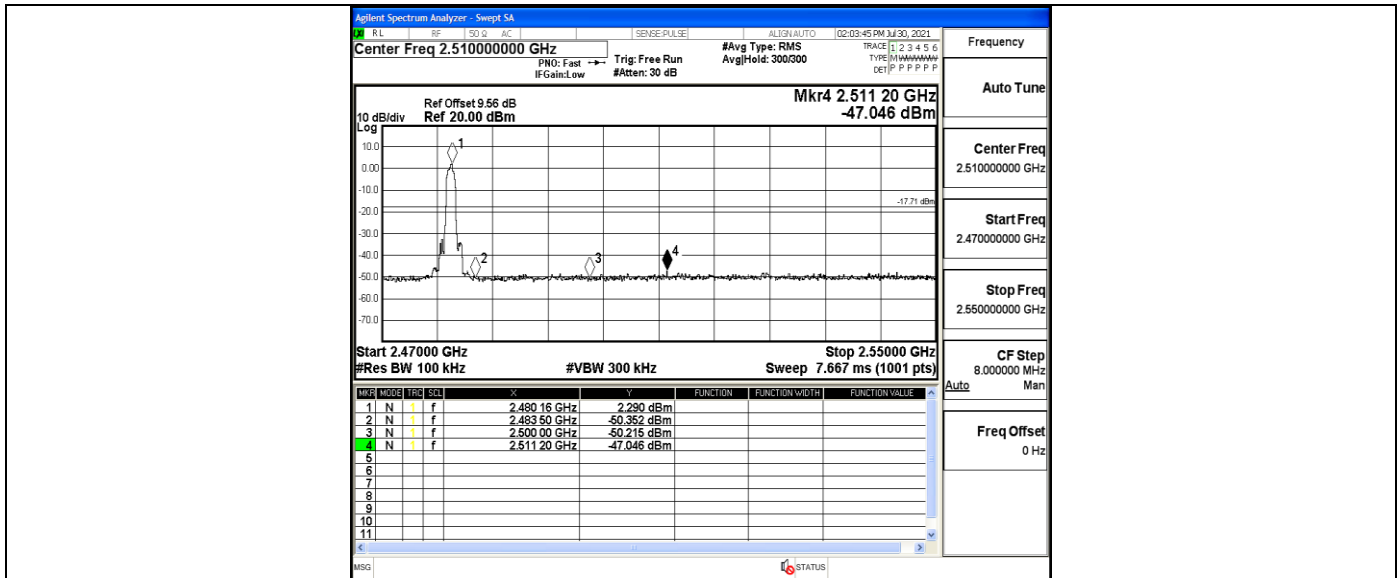
2DH5 Ant1 High Hop 2480



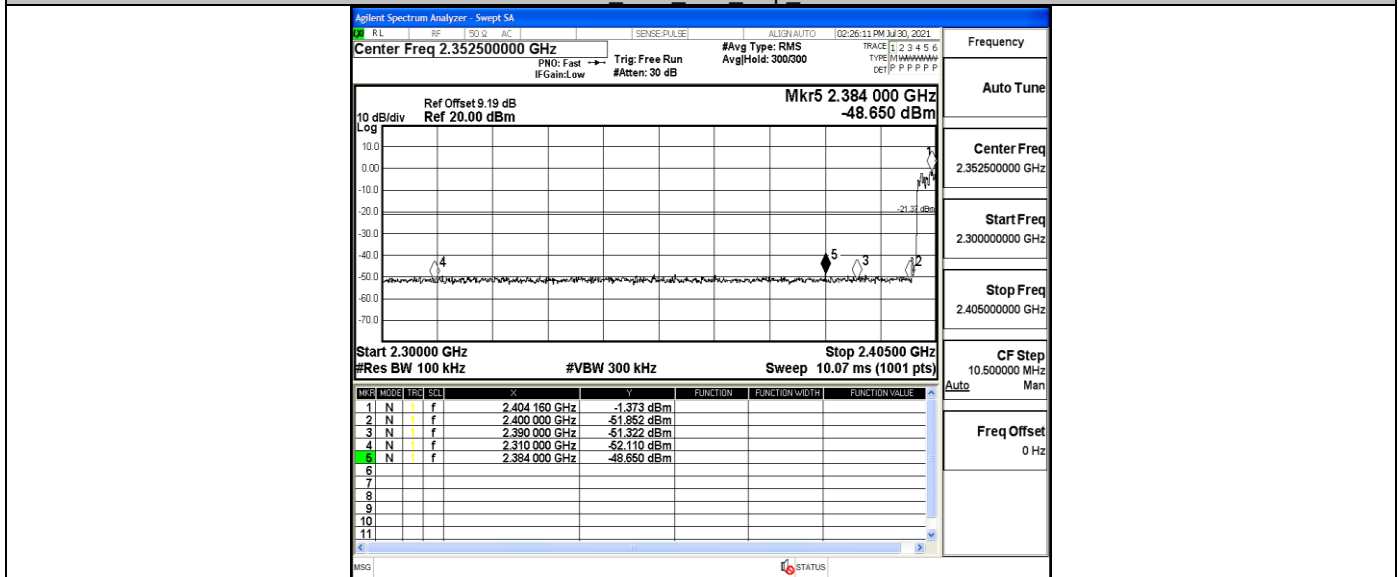
3DH5 Ant1 Low 2402



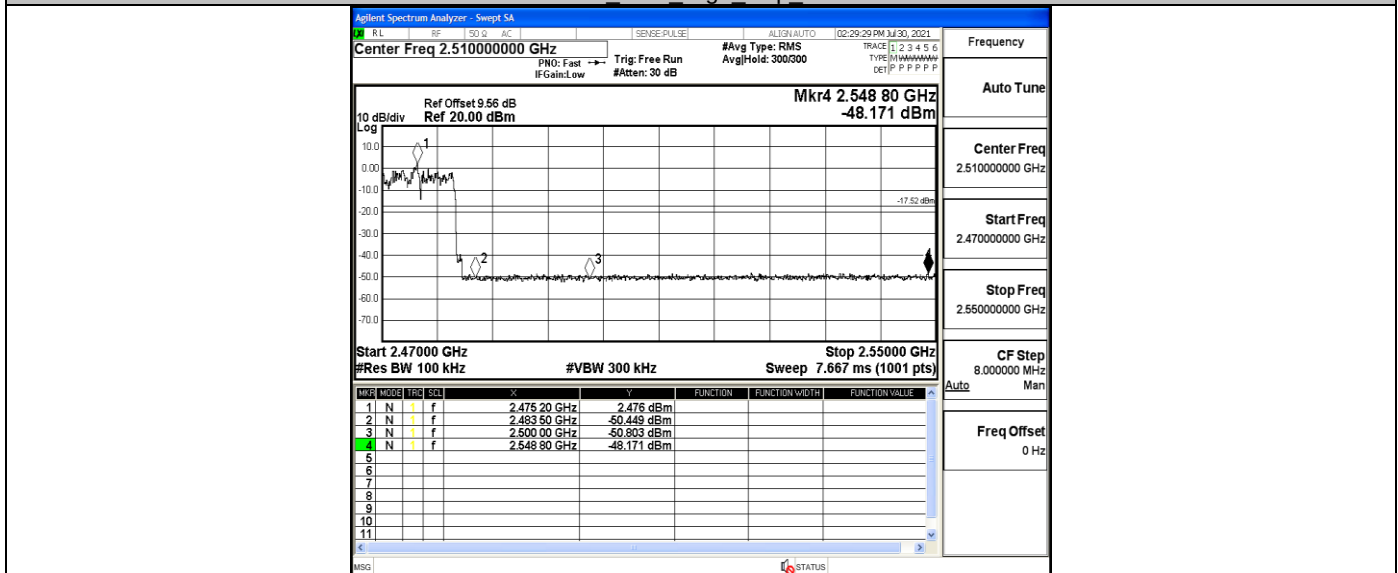
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402

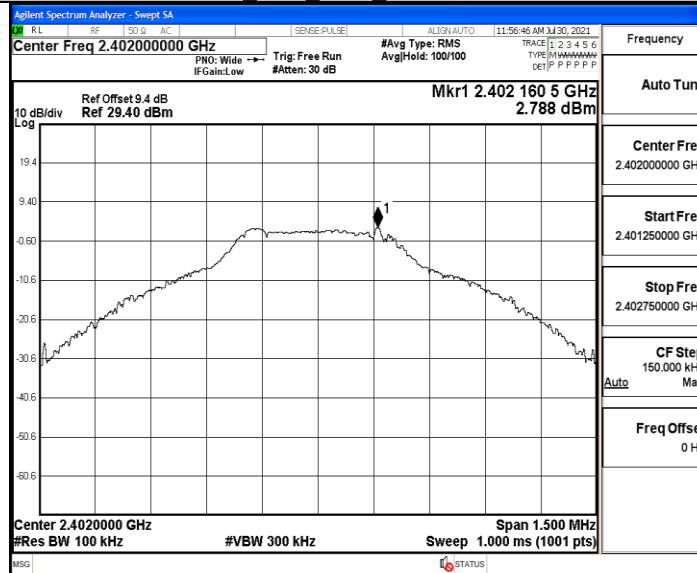


3DH5 Ant1 High Hop 2480

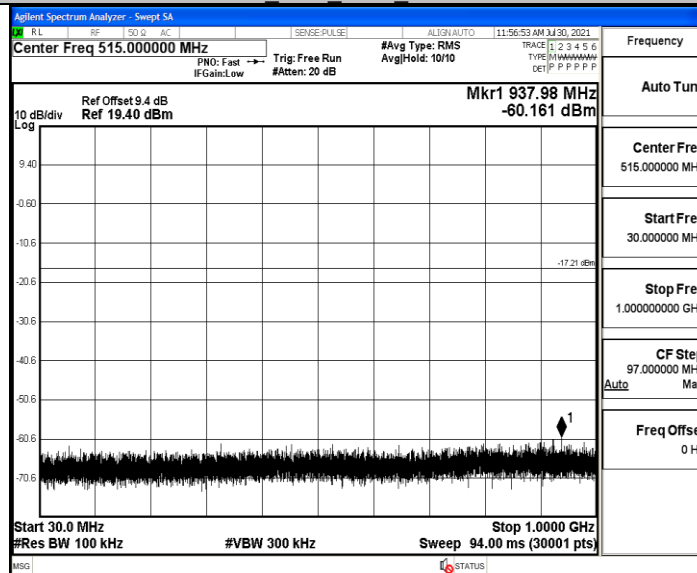


A.7 RF Conducted Spurious Emissions

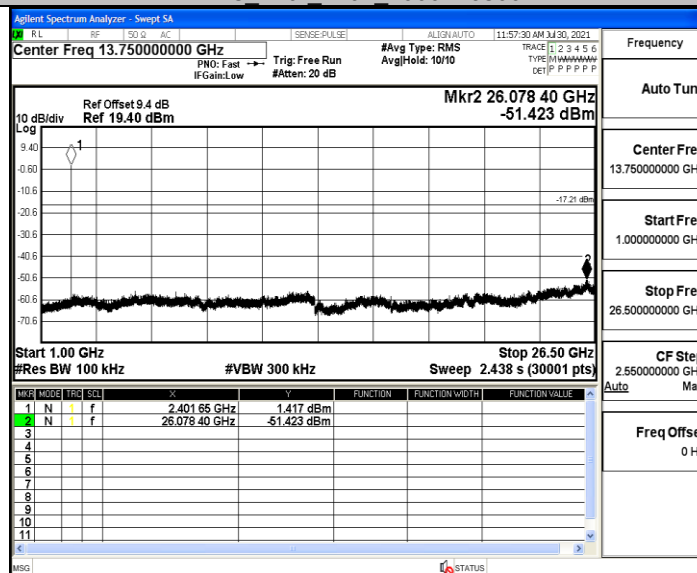
DH5 Ant1 2402 0-Reference



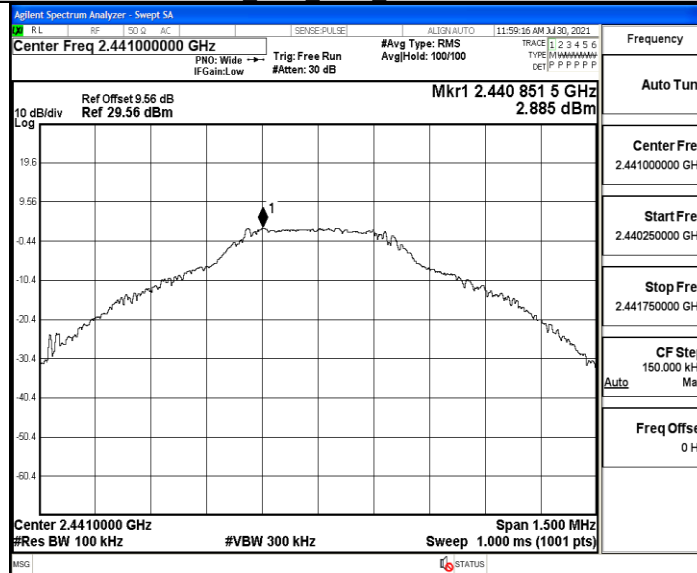
DH5 Ant1 2402 30-1000



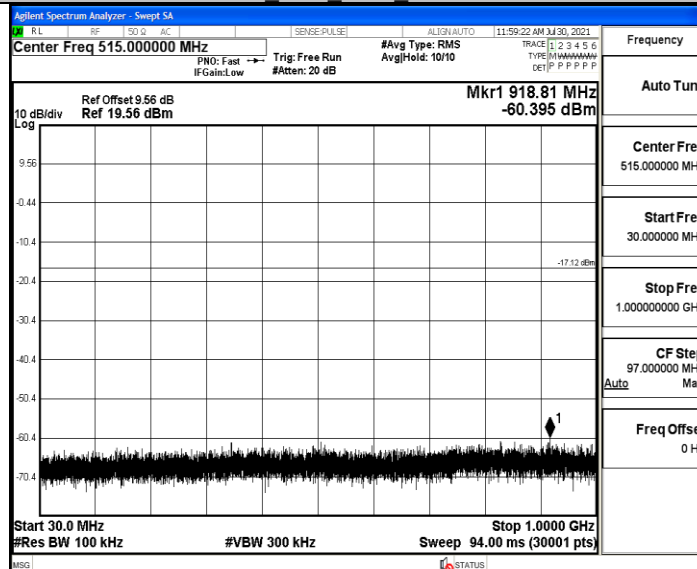
DH5 Ant1 2402 1000-26500



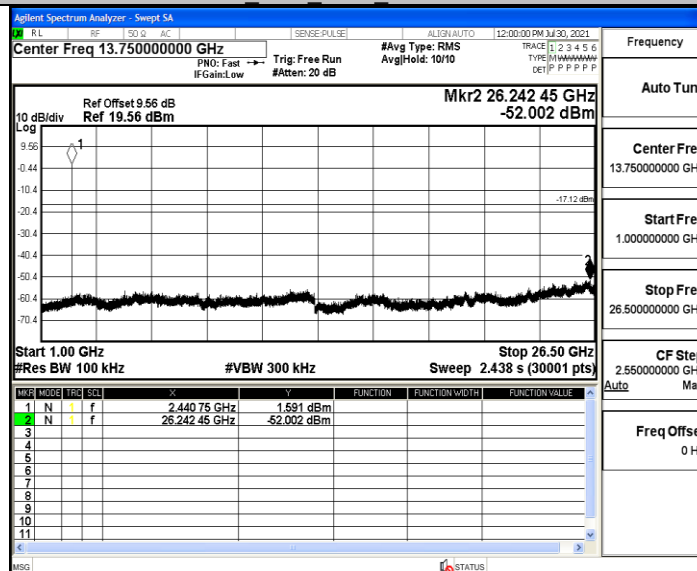
DH5_Ant1_2441_0-Reference



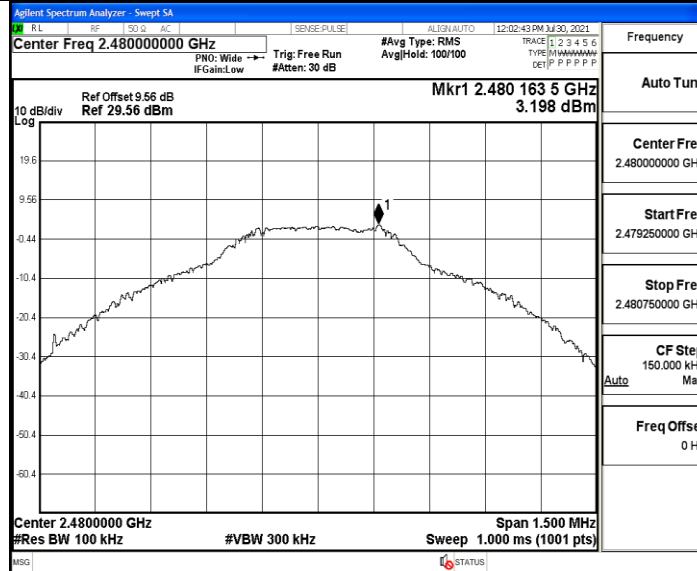
DH5_Ant1_2441_30~1000



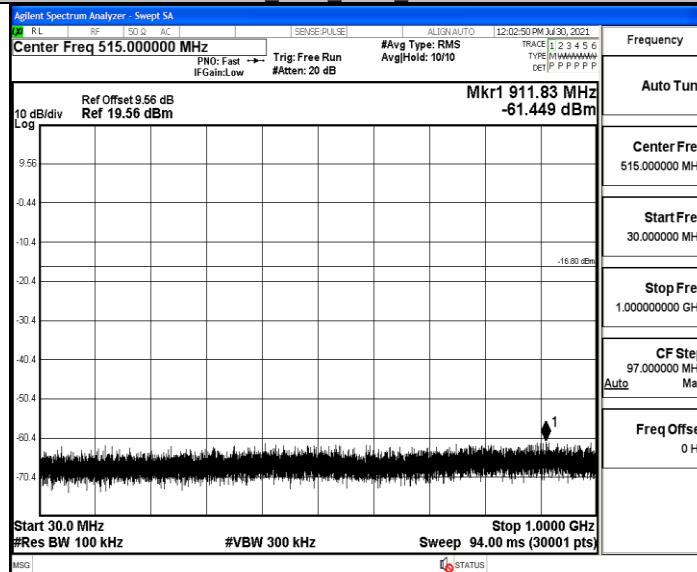
DH5_Ant1_2441_1000~26500



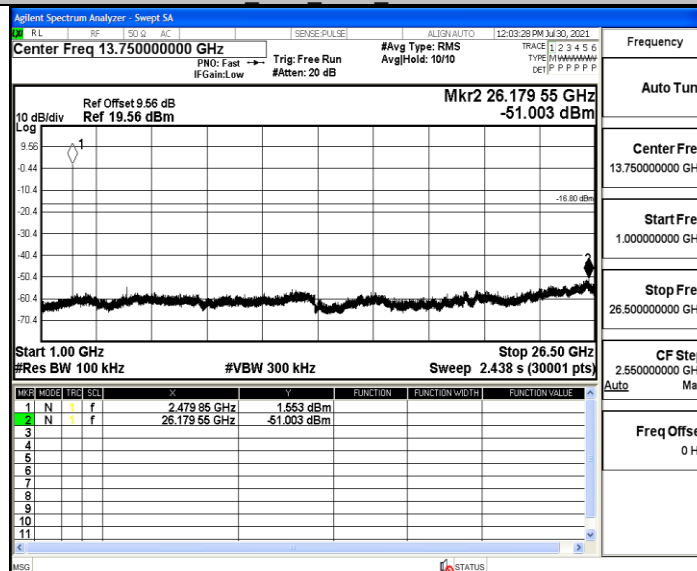
DH5_Ant1_2480_0-Reference



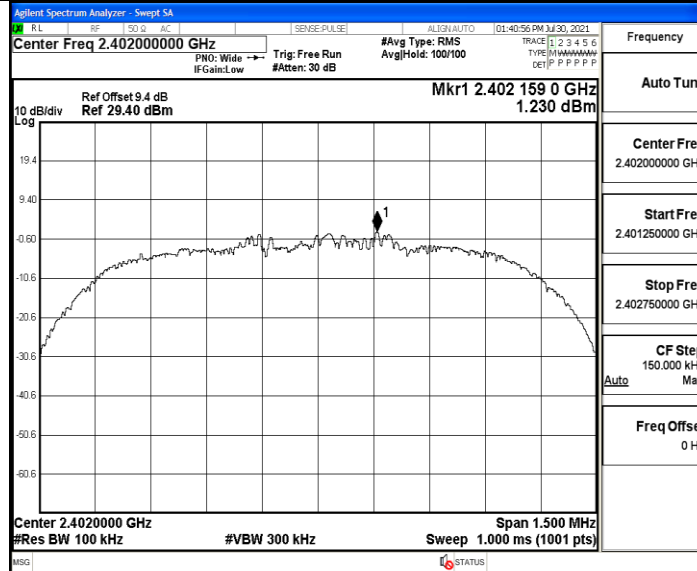
DH5_Ant1_2480_30~1000



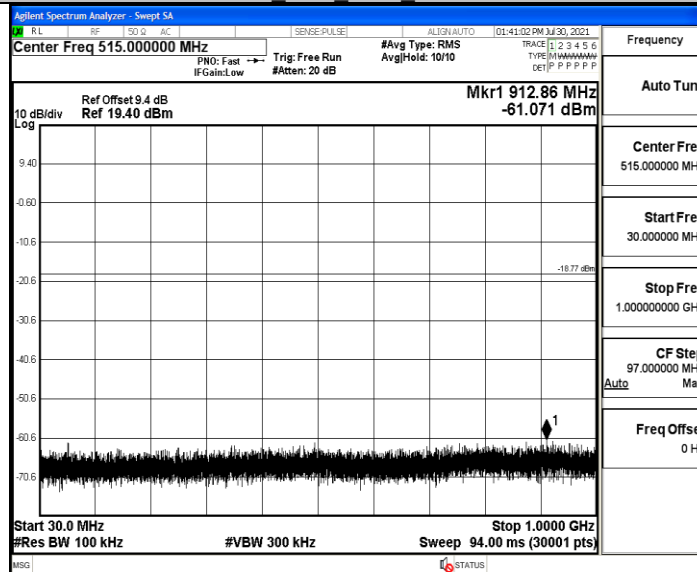
DH5_Ant1_2480_1000~26500



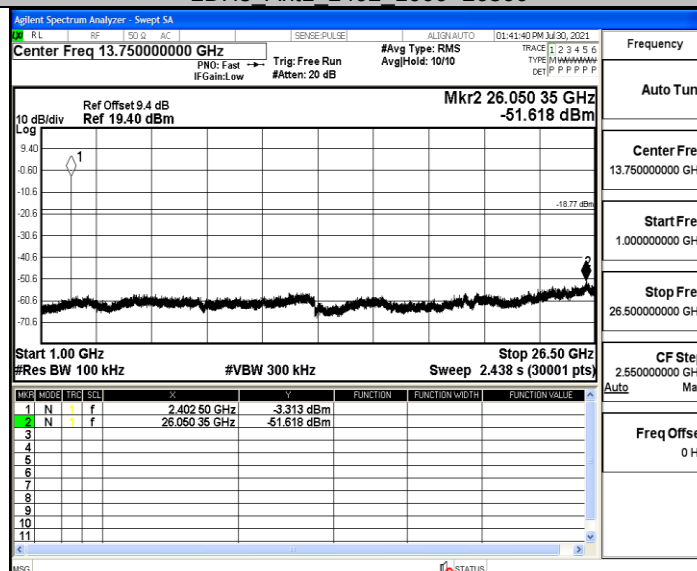
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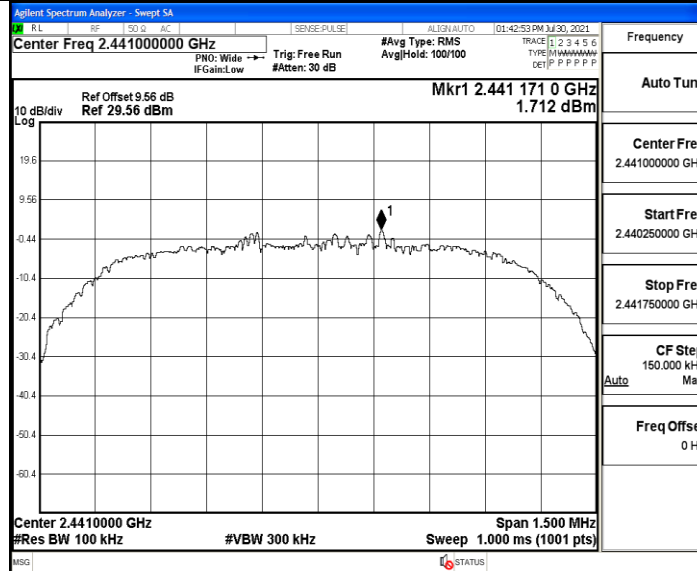
2DH5_Ant1_2402_30~1000



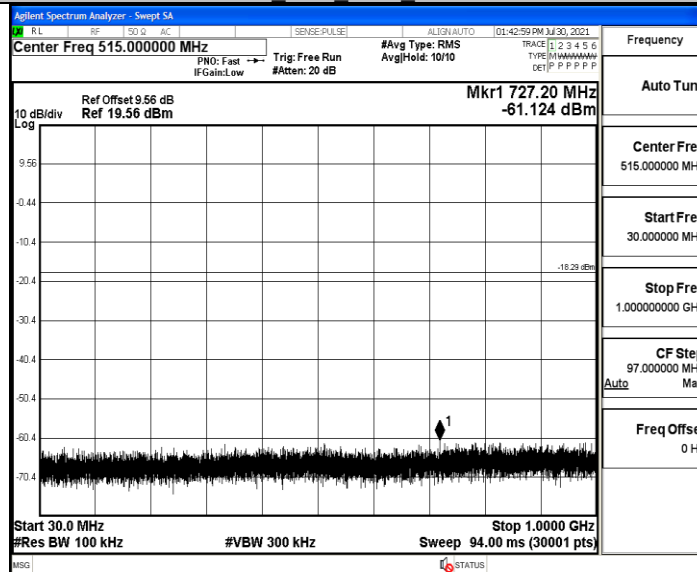
2DH5_Ant1_2402_1000~26500



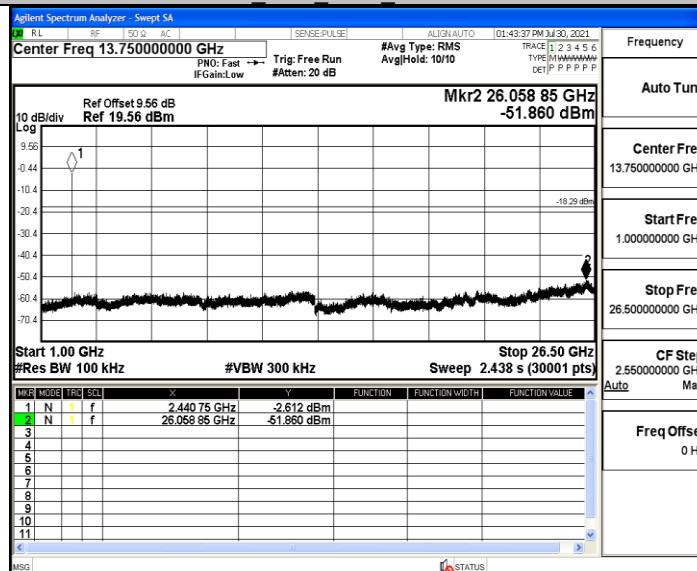
2DH5_Ant1_2441_0~Reference



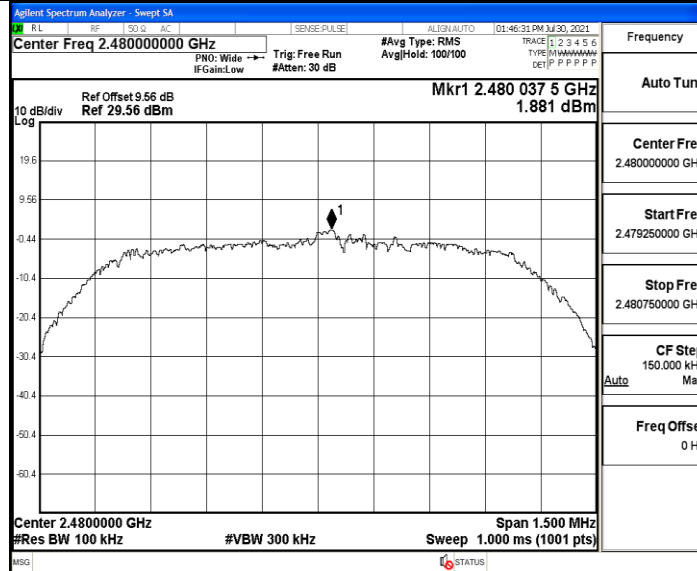
2DH5_Ant1_2441_30~1000



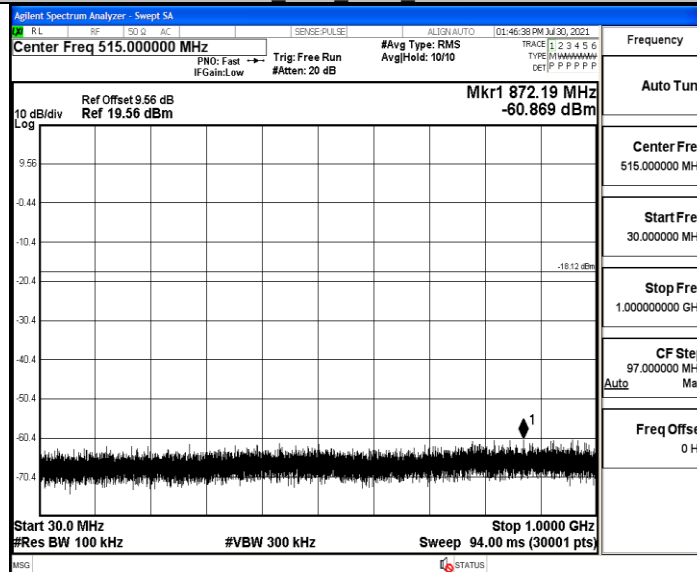
2DH5_Ant1_2441_1000~26500



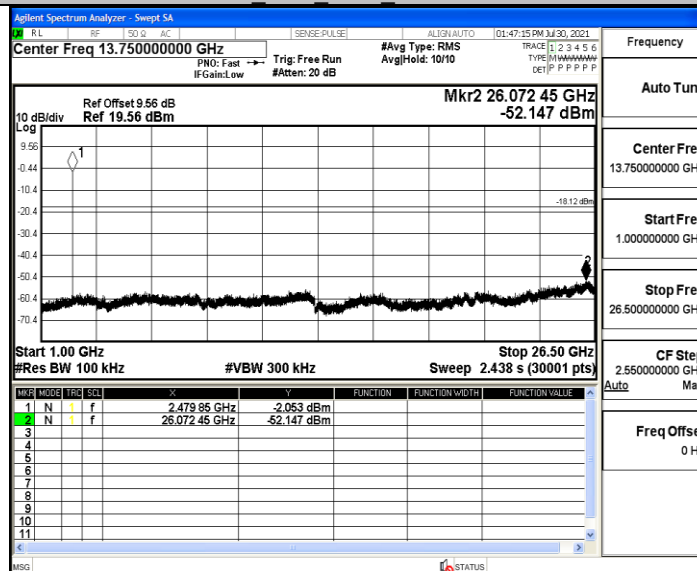
2DH5_Ant1_2480_0~Reference



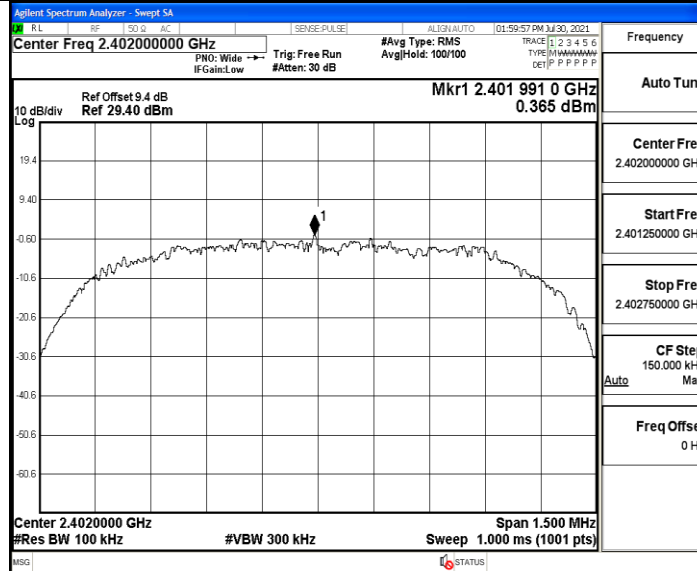
2DH5_Ant1_2480_30~1000



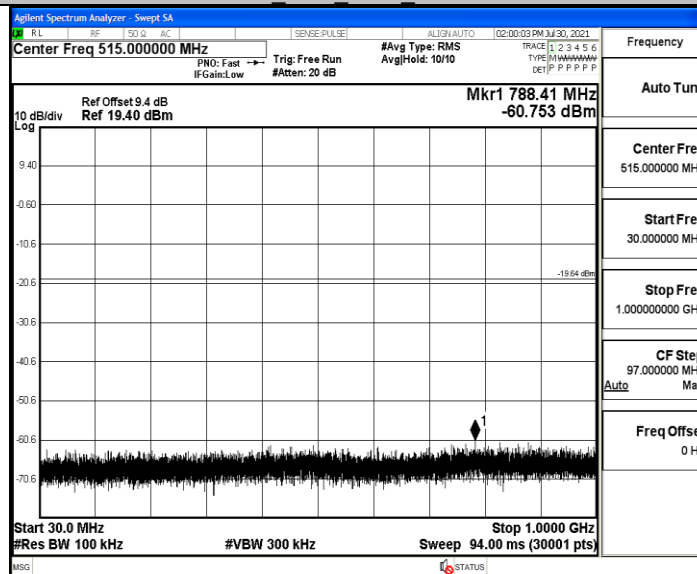
2DH5_Ant1_2480_1000~26500



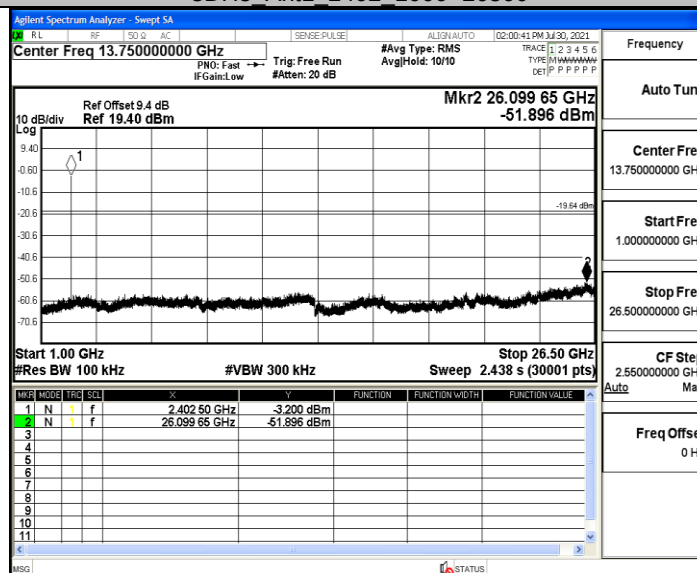
3DH5_Ant1_2402_0~Reference



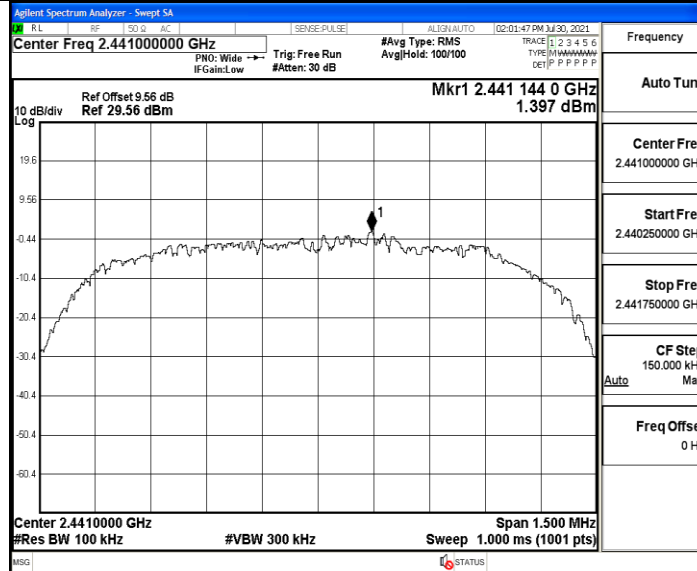
3DH5_Ant1_2402_30~1000



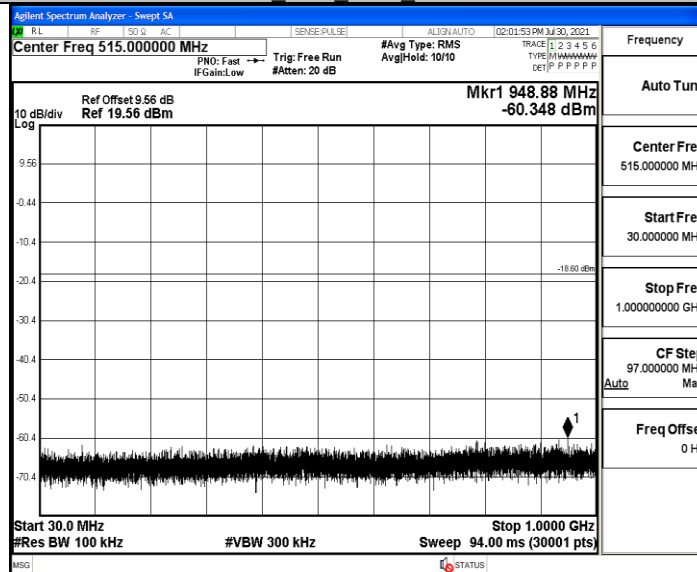
3DH5_Ant1_2402_1000~26500



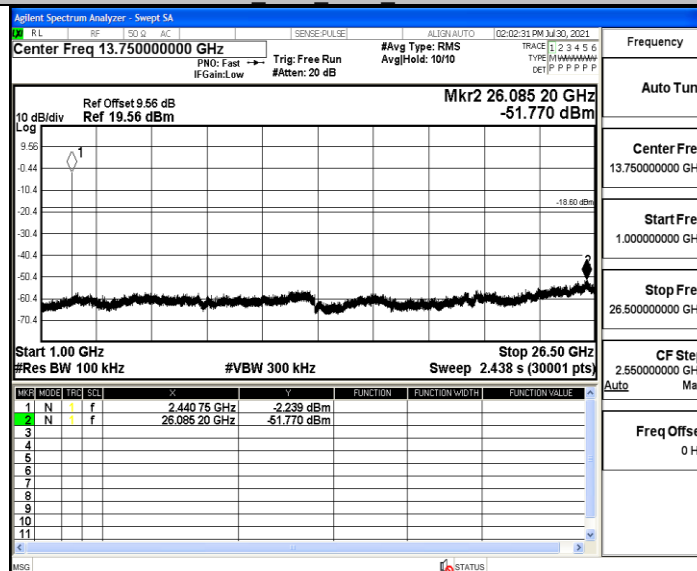
3DH5_Ant1_2441_0~Reference



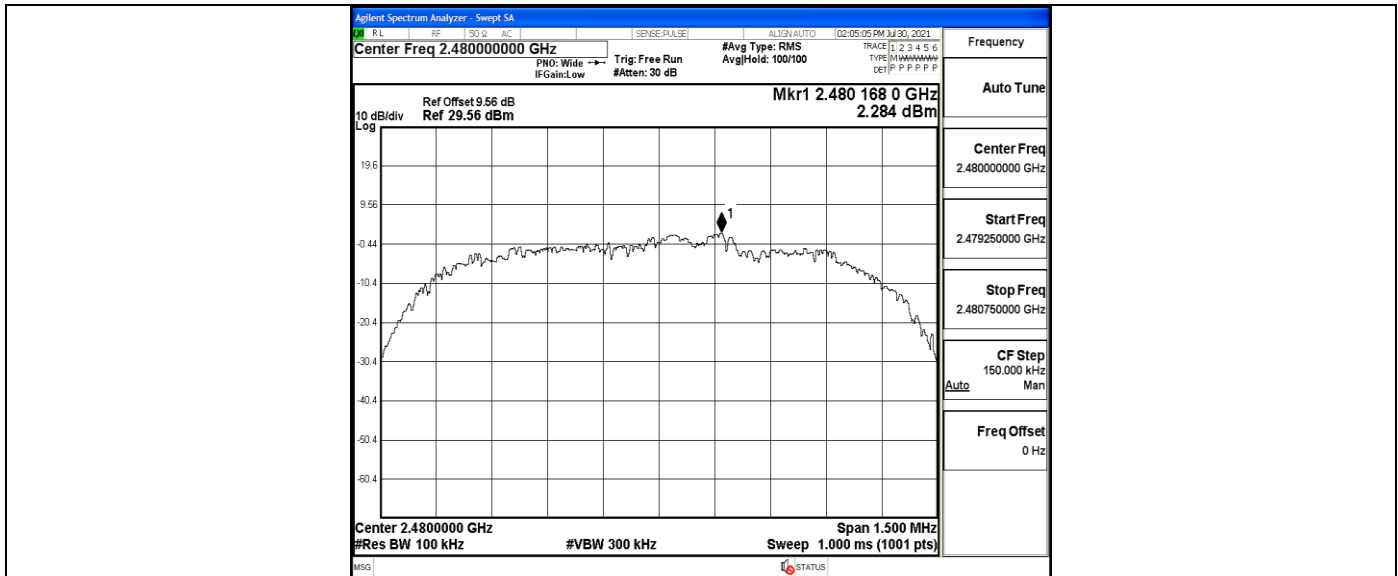
3DH5_Ant1_2441_30~1000



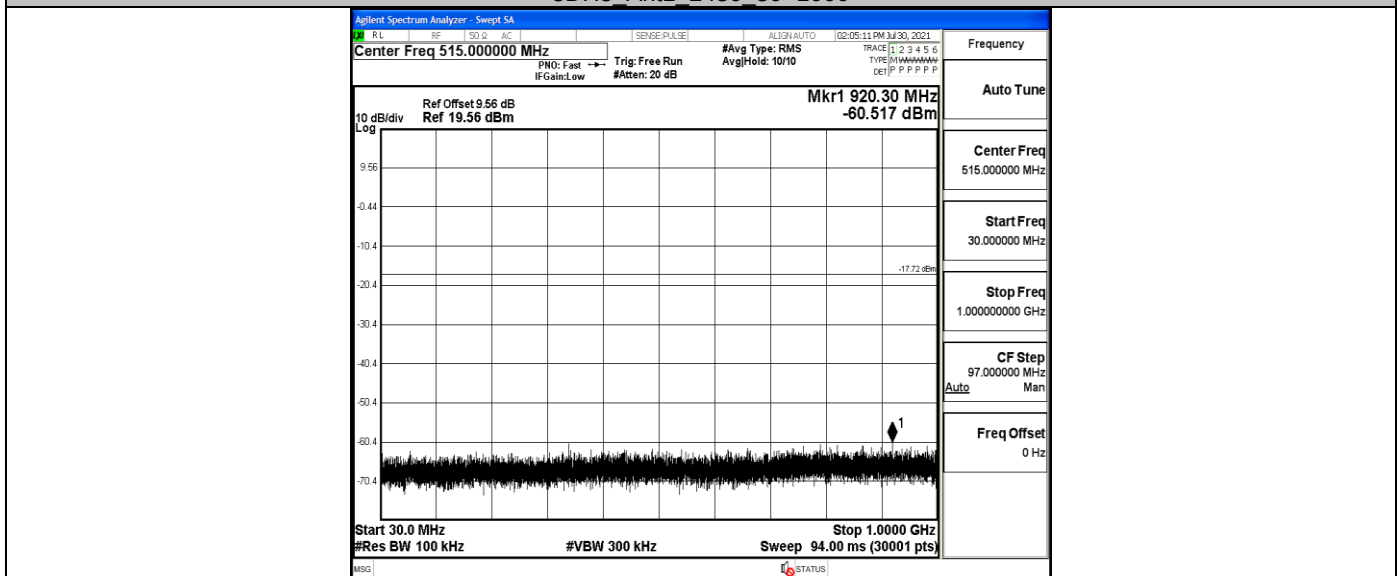
3DH5_Ant1_2441_1000~26500



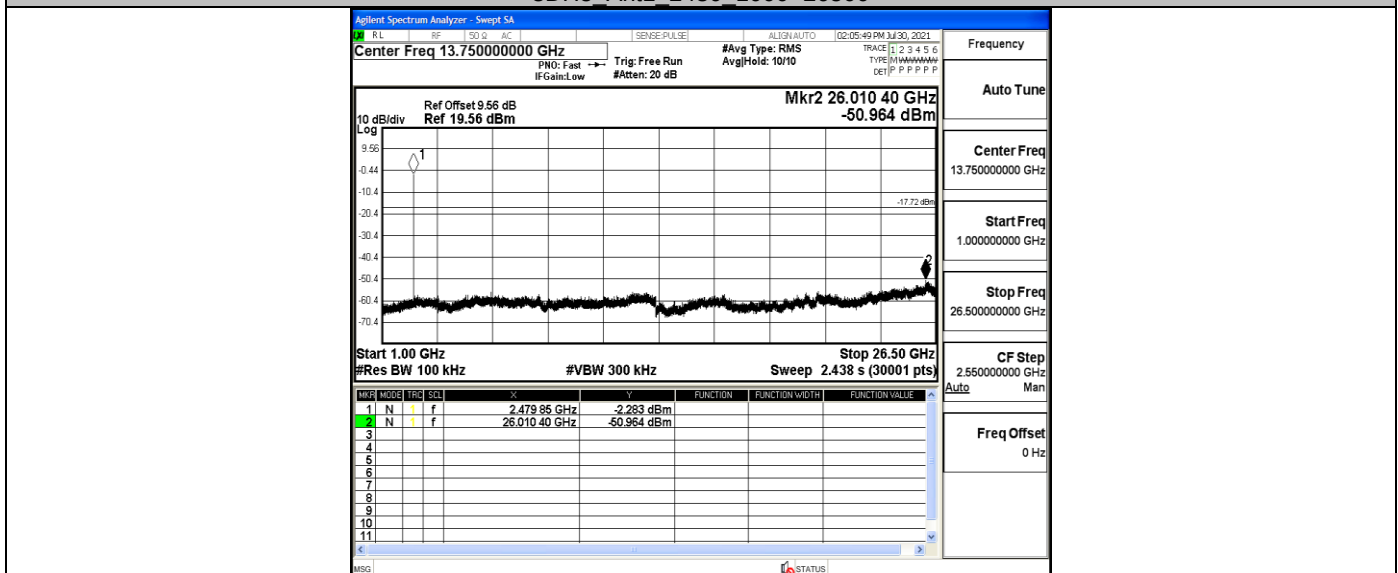
3DH5_Ant1_2480_0~Reference



3DH5 Ant1 2480 30~1000



3DH5 Ant1 2480 1000~26500



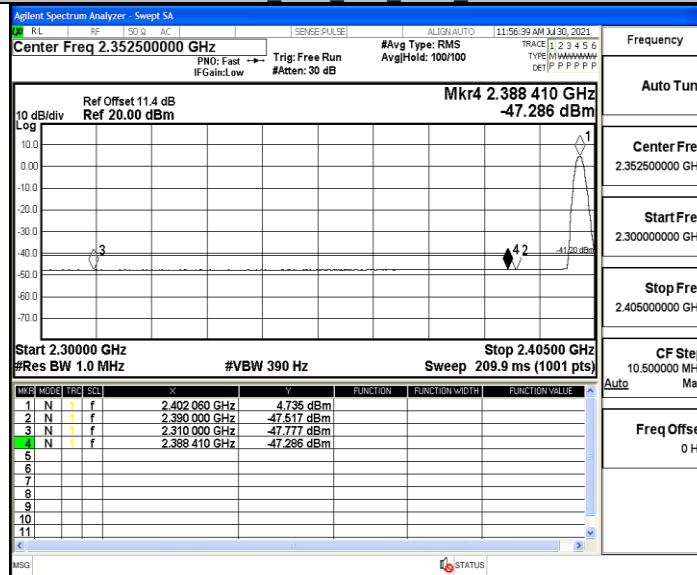
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.78	≤-41.20	PASS
				AV	2388.410	-47.29	≤-41.20	PASS
				AV	2390.000	-47.52	≤-41.20	PASS
				Peak	2310.000	-39.76	≤-21.20	PASS
				Peak	2381.690	-36.7	≤-21.20	PASS
				Peak	2390.000	-40.26	≤-21.20	PASS
		High	2480	AV	2483.500	-46.53	≤-41.20	PASS
				AV	2483.520	-46.53	≤-41.20	PASS
				AV	2500.000	-46.68	≤-41.20	PASS
				Peak	2483.500	-39.85	≤-21.20	PASS
				Peak	2484.320	-36.53	≤-21.20	PASS
				Peak	2500.000	-38.68	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-47.67	≤-41.20	PASS
				AV	2384.000	-47.37	≤-41.20	PASS
				AV	2390.000	-47.52	≤-41.20	PASS
				Peak	2310.000	-40.59	≤-21.20	PASS
				Peak	2323.520	-36.93	≤-21.20	PASS
				Peak	2390.000	-39.05	≤-21.20	PASS
		High	2480	AV	2483.500	-45.98	≤-41.20	PASS
				AV	2483.520	-45.98	≤-41.20	PASS
				AV	2500.000	-46.75	≤-41.20	PASS
				Peak	2483.500	-38.7	≤-21.20	PASS
				Peak	2493.680	-37.48	≤-21.20	PASS
				Peak	2500.000	-39.19	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-47.67	≤-41.20	PASS
				AV	2367.095	-47.28	≤-41.20	PASS
				AV	2390.000	-47.52	≤-41.20	PASS
				Peak	2310.000	-40.55	≤-21.20	PASS
				Peak	2384.840	-37.08	≤-21.20	PASS
				Peak	2390.000	-41.16	≤-21.20	PASS
		High	2480	AV	2483.500	-46.04	≤-41.20	PASS
				AV	2483.520	-46.03	≤-41.20	PASS
				AV	2500.000	-46.76	≤-41.20	PASS
				Peak	2483.500	-39.59	≤-21.20	PASS
				Peak	2490.160	-37.13	≤-21.20	PASS
				Peak	2500.000	-41.02	≤-21.20	PASS

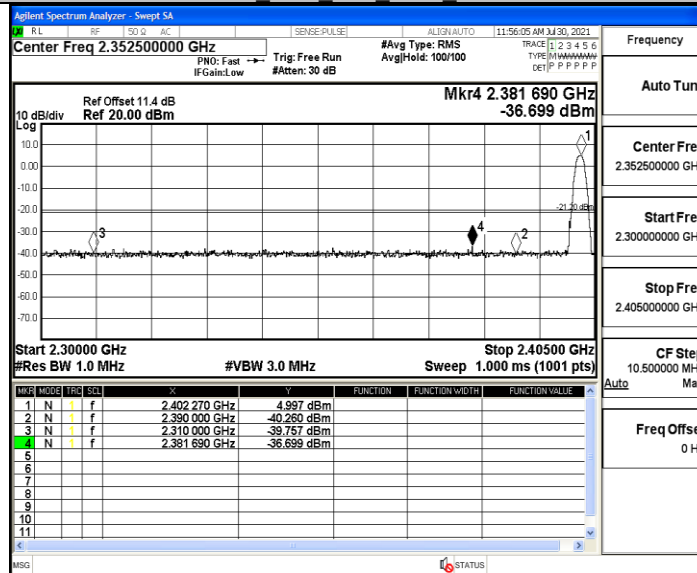
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.

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.

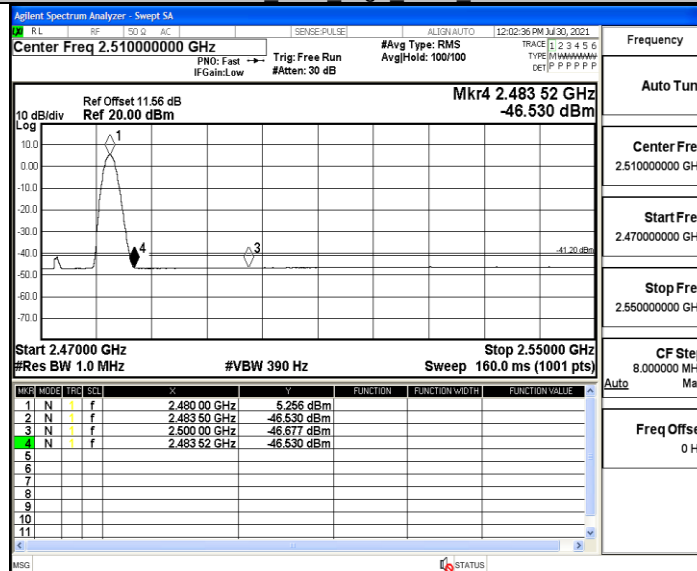
DH5 Ant1 Low 2402 AV



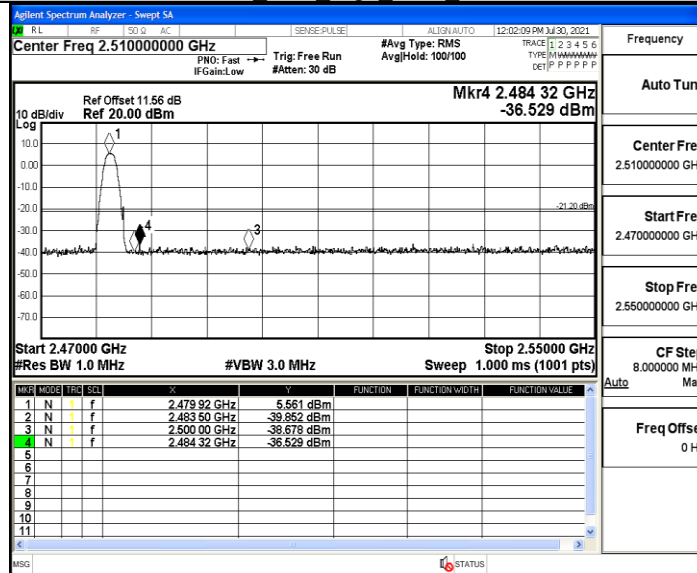
DH5 Ant1 Low 2402 Peak



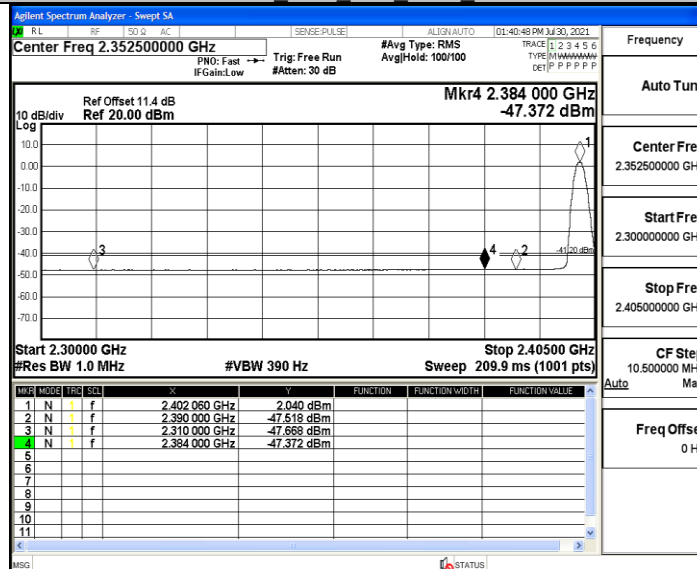
DH5 Ant1 High 2480 AV



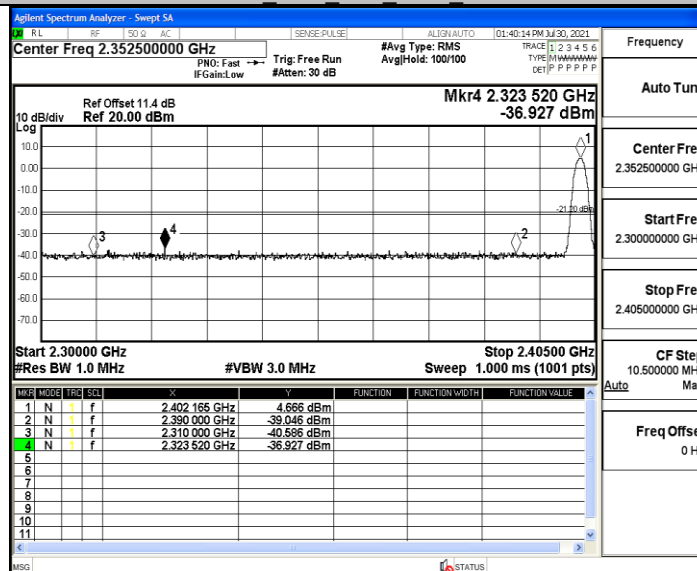
DH5_Ant1_High_2480_Peak



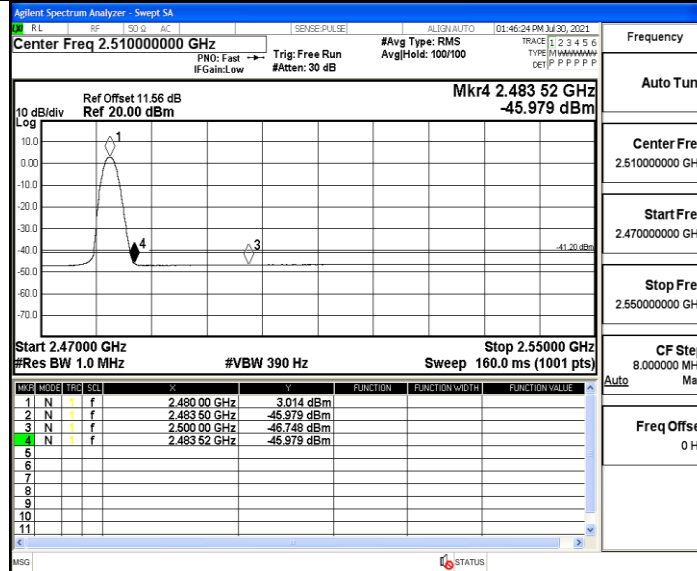
2DH5_Ant1_Low_2402_AV



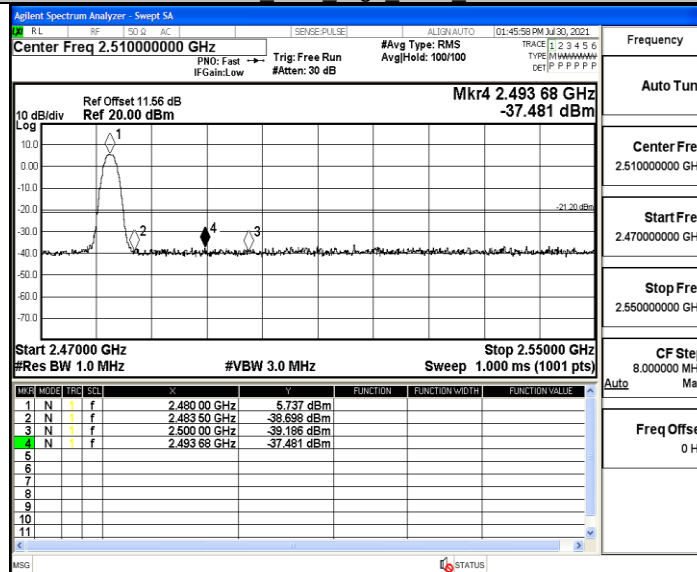
2DH5_Ant1_Low_2402_Peak



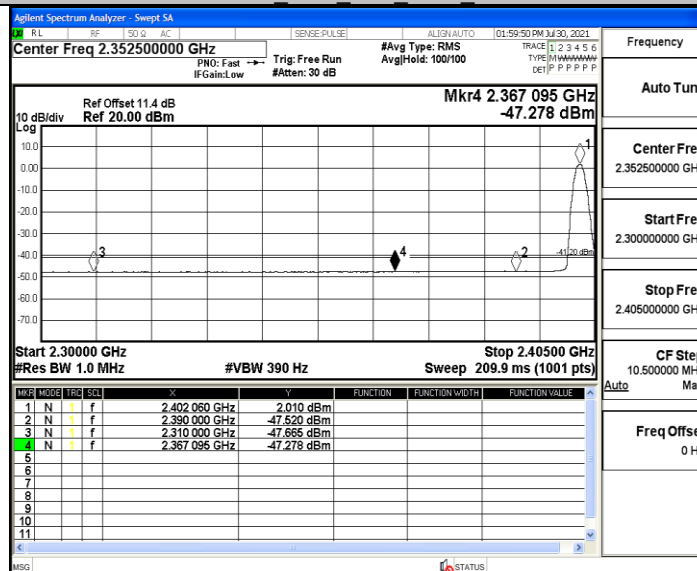
2DH5_Ant1_High_2480_AV



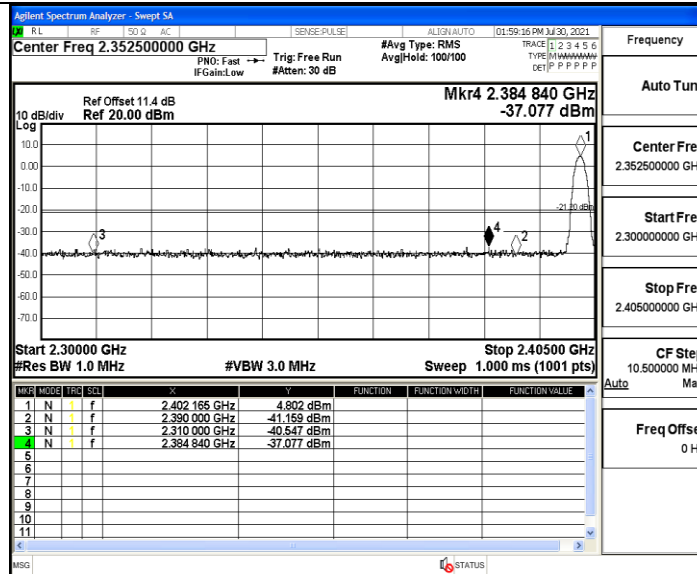
2DH5_Ant1_High_2480_Peak



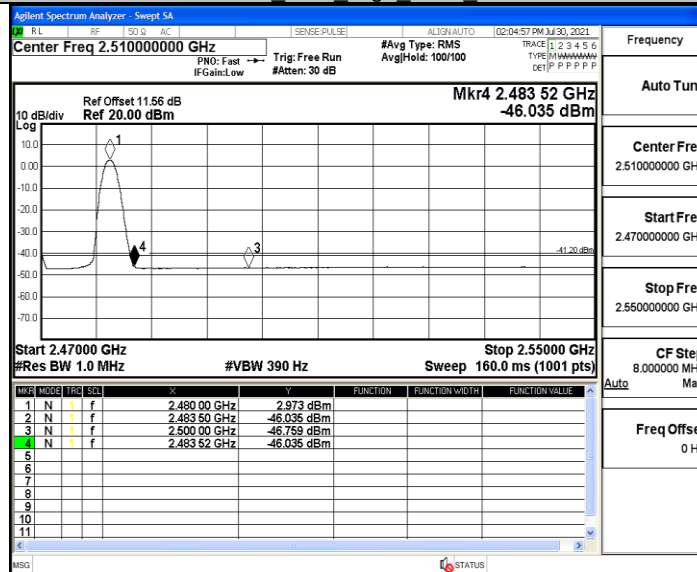
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5 Ant1_High_2480_AV



3DH5 Ant1_High_2480 Peak

