

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

Product Name: OTT BOX+GPON

Trade Mark: N/A

Test Model: SD5BGD

FCC ID: 2AQLF-SD5BGX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

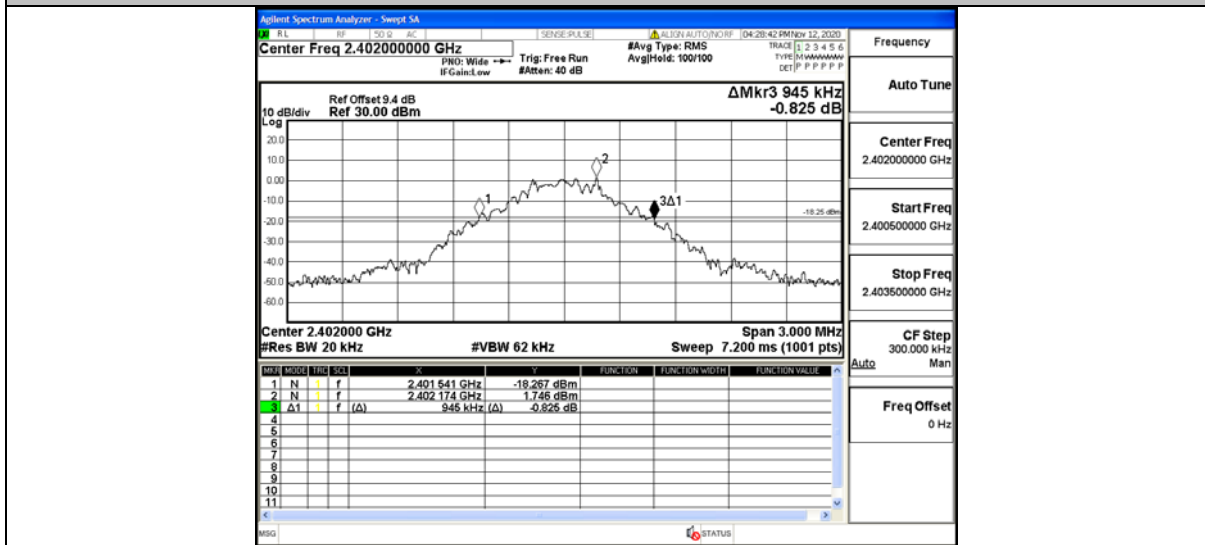
Appendix A: 20dB Emission Bandwidth

Test Result

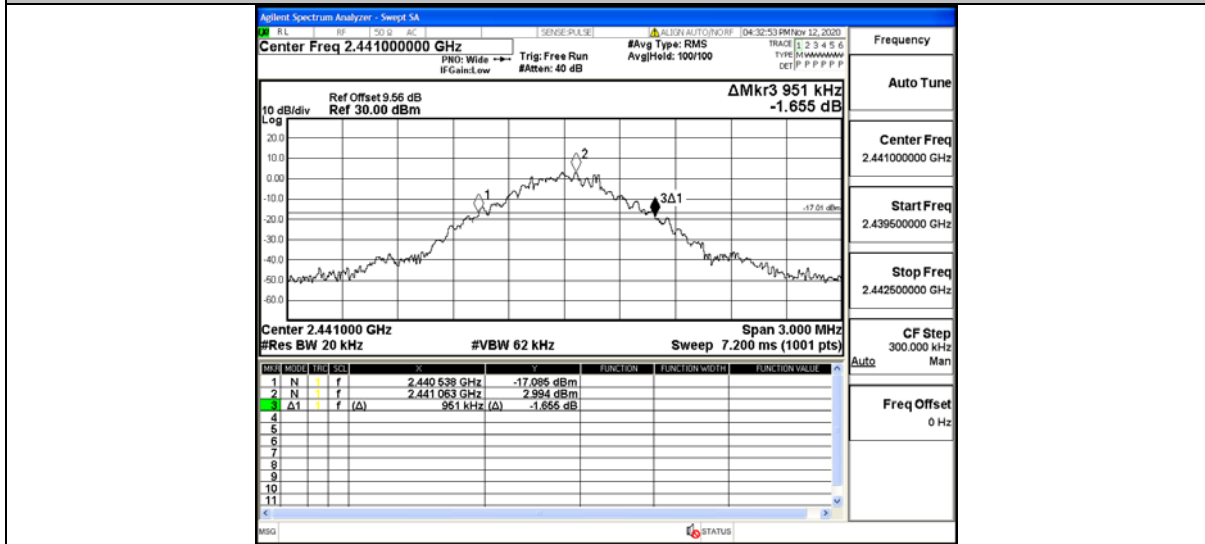
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant3	2402	0.945	2401.541	2402.486	Not Specified	PASS
		2441	0.951	2440.538	2441.489	Not Specified	PASS
		2480	0.942	2479.541	2480.483	Not Specified	PASS
2DH5	Ant3	2402	1.317	2401.343	2402.660	Not Specified	PASS
		2441	1.317	2440.343	2441.660	Not Specified	PASS
		2480	1.320	2479.340	2480.660	Not Specified	PASS
3DH5	Ant3	2402	1.326	2401.334	2402.660	Not Specified	PASS
		2441	1.302	2440.349	2441.651	Not Specified	PASS
		2480	1.272	2479.352	2480.624	Not Specified	PASS

Test Graphs

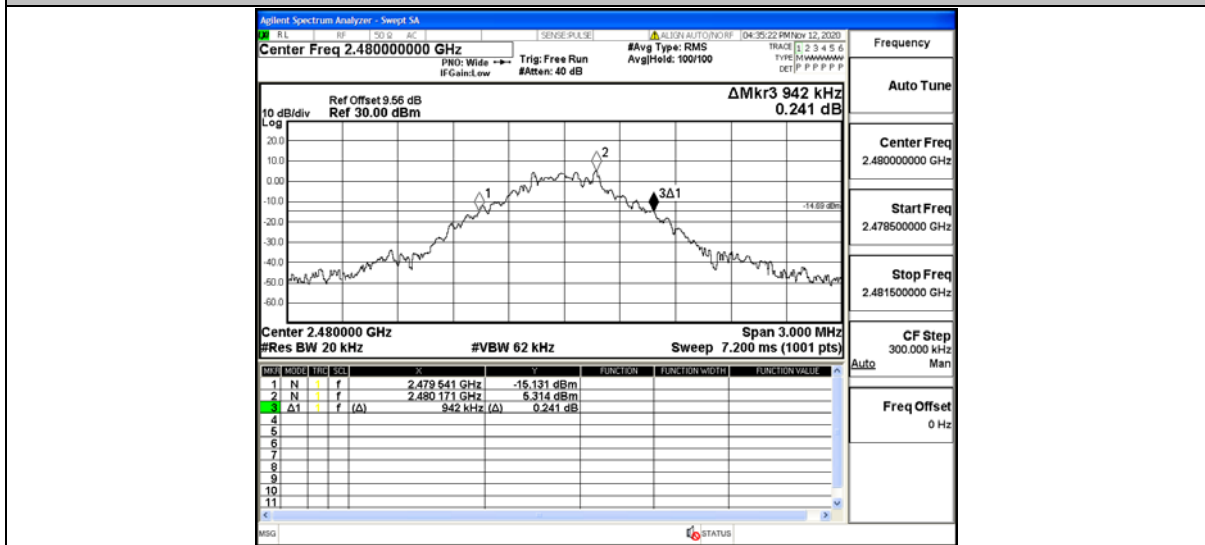
DH5_Ant3_2402



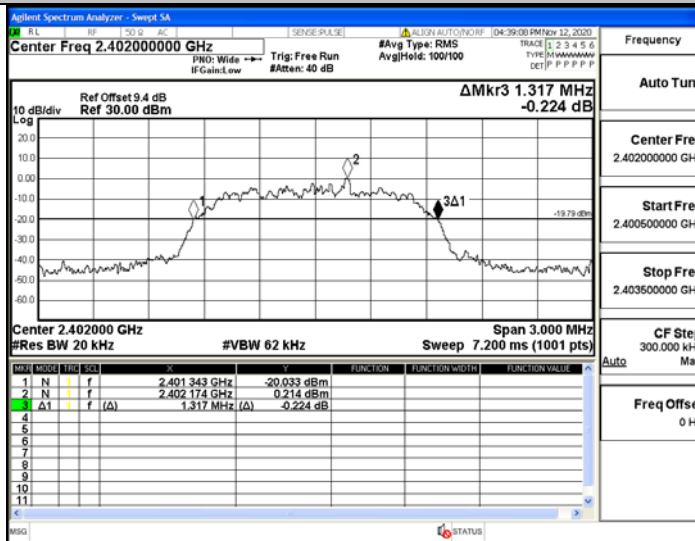
DH5_Ant3_2441



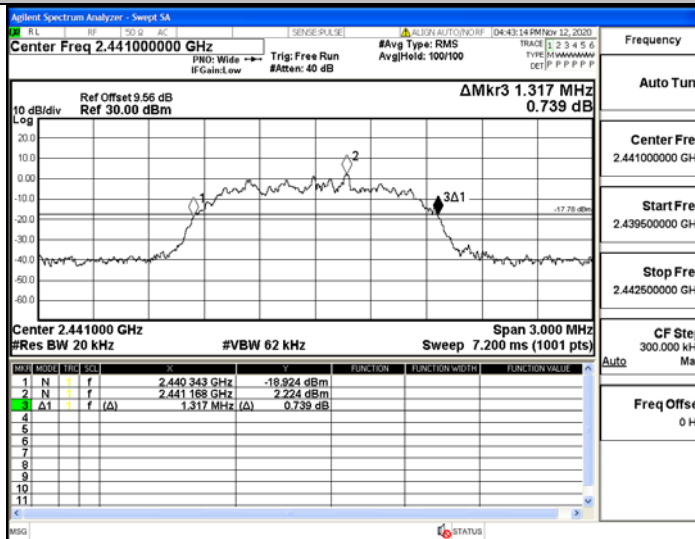
DH5_Ant3_2480



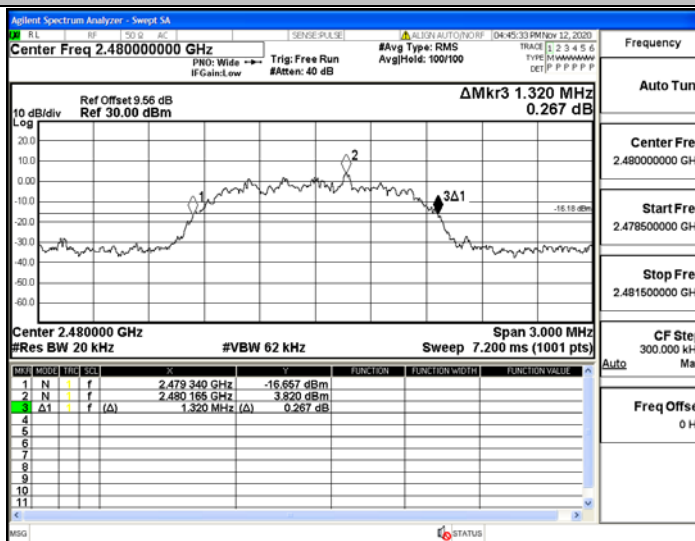
2DH5_Ant3_2402



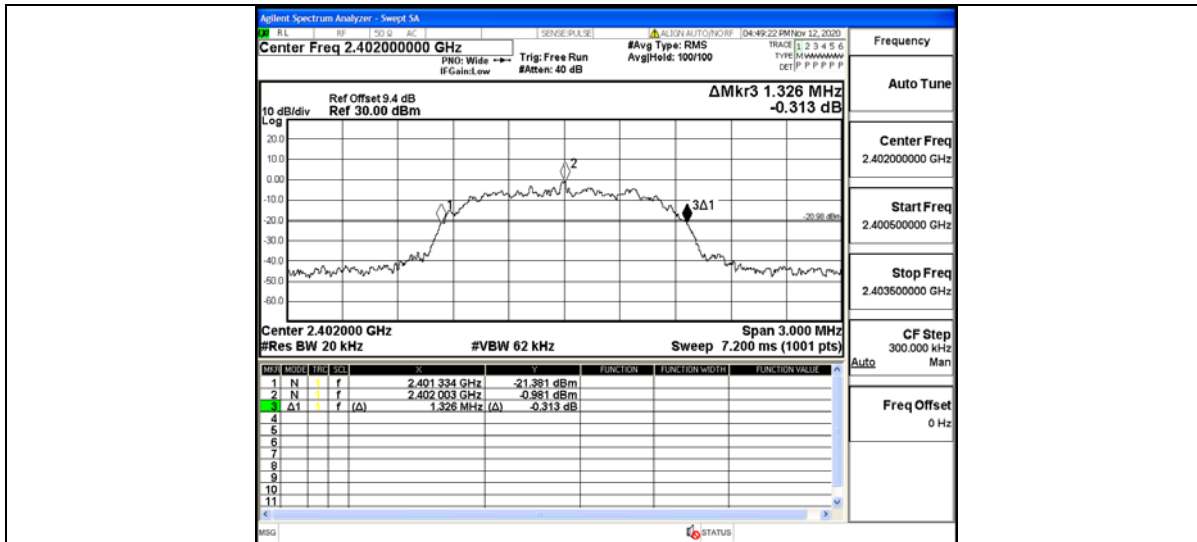
2DH5_Ant3_2441



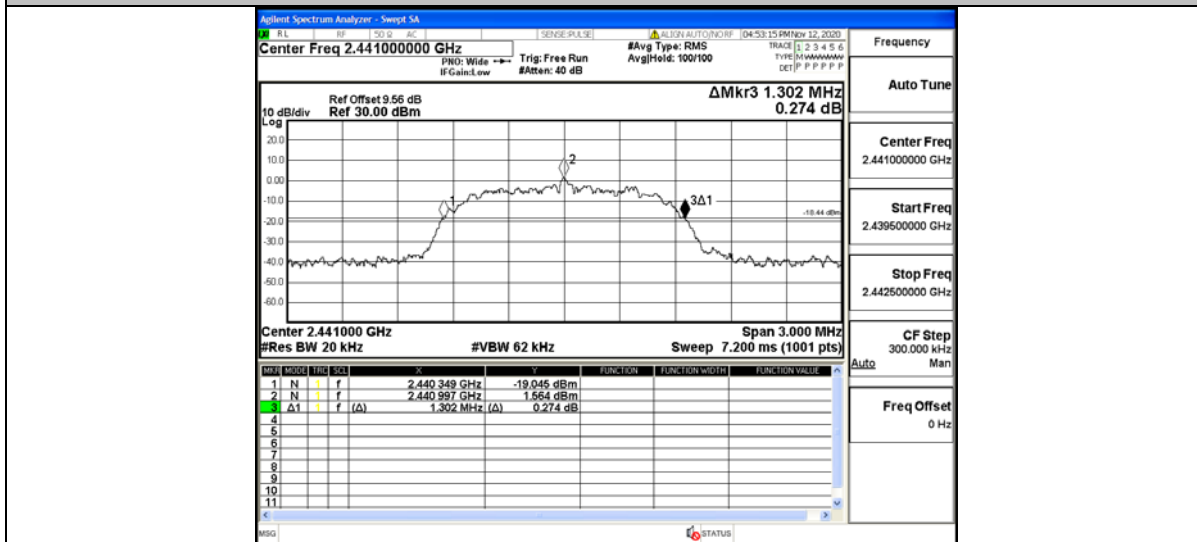
2DH5_Ant3_2480



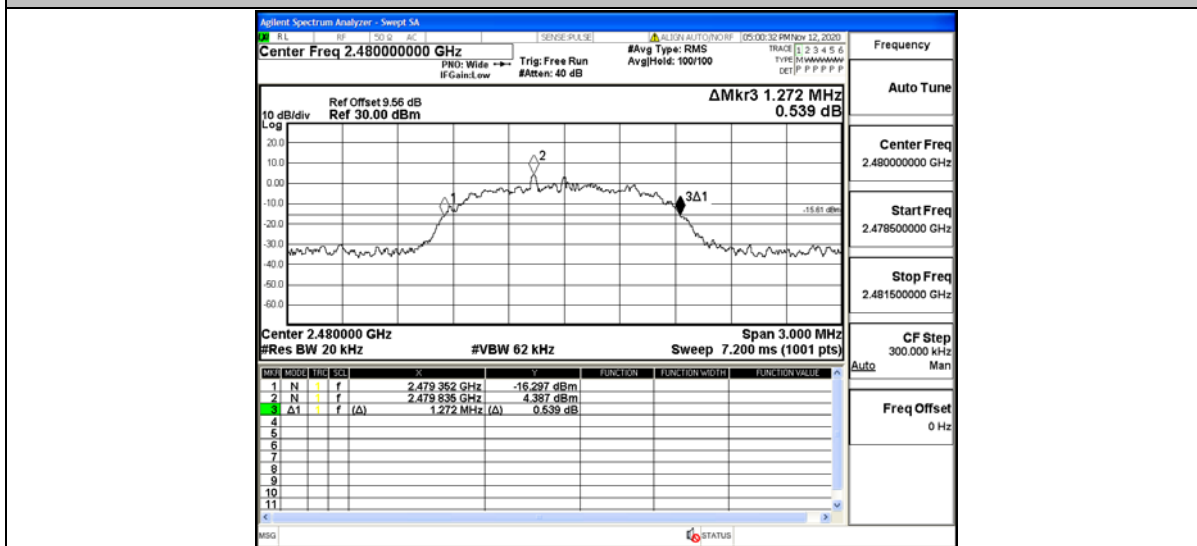
3DH5_Ant3_2402



3DH5_Ant3_2441



3DH5_Ant3_2480



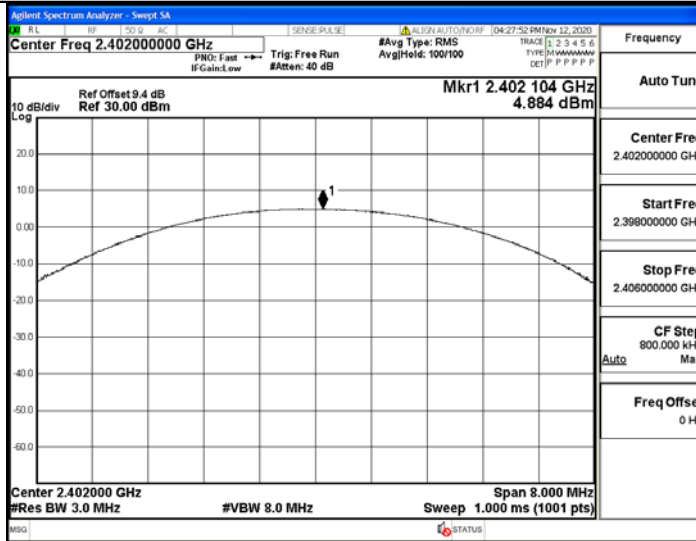
Appendix B: Maximum conducted output power

Test Result

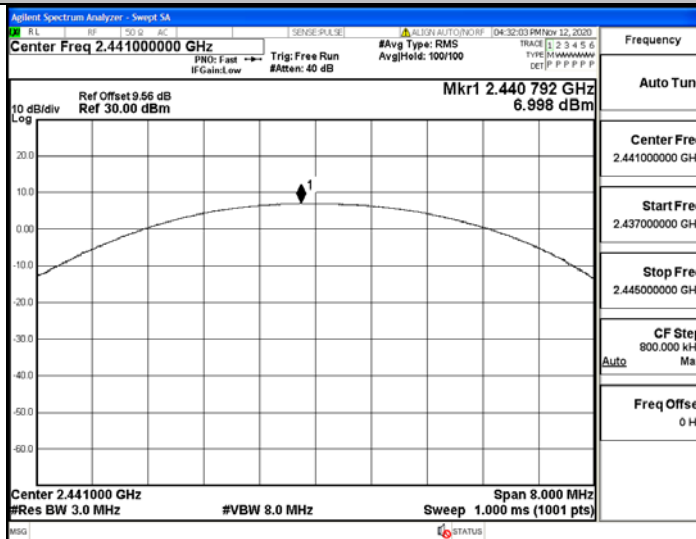
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant3	2402	4.88	<=20.97	PASS
		2441	7.00	<=20.97	PASS
		2480	8.49	<=20.97	PASS
2DH5	Ant3	2402	6.41	<=30.00	PASS
		2441	8.29	<=30.00	PASS
		2480	9.55	<=30.00	PASS
3DH5	Ant3	2402	7.02	<=30.00	PASS
		2441	8.79	<=30.00	PASS
		2480	9.78	<=30.00	PASS

Test Graphs

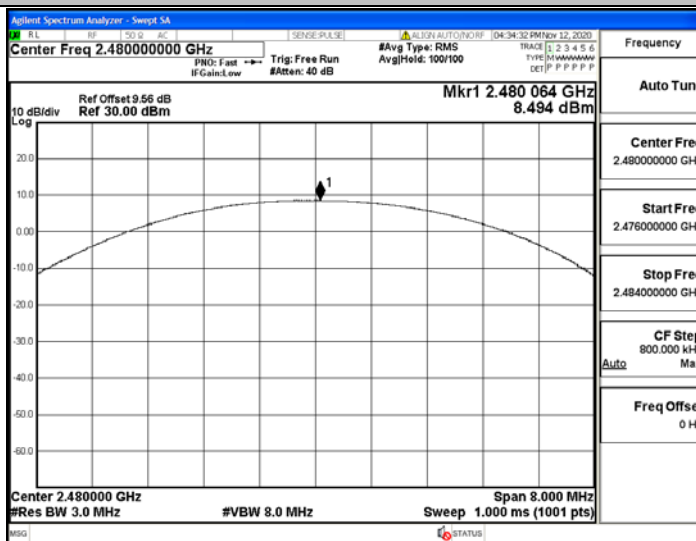
DH5_Ant3_2402



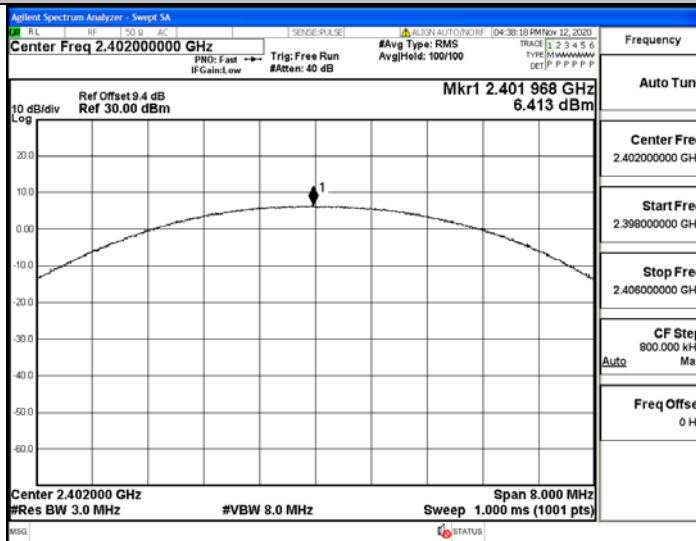
DH5_Ant3_2441



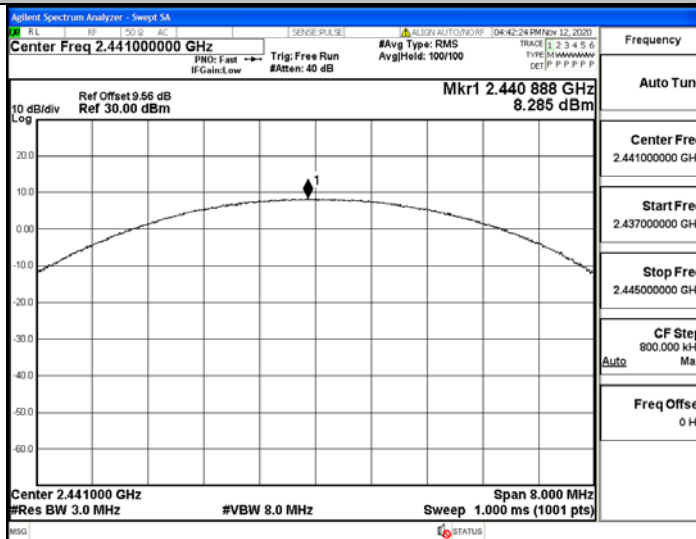
DH5_Ant3_2480



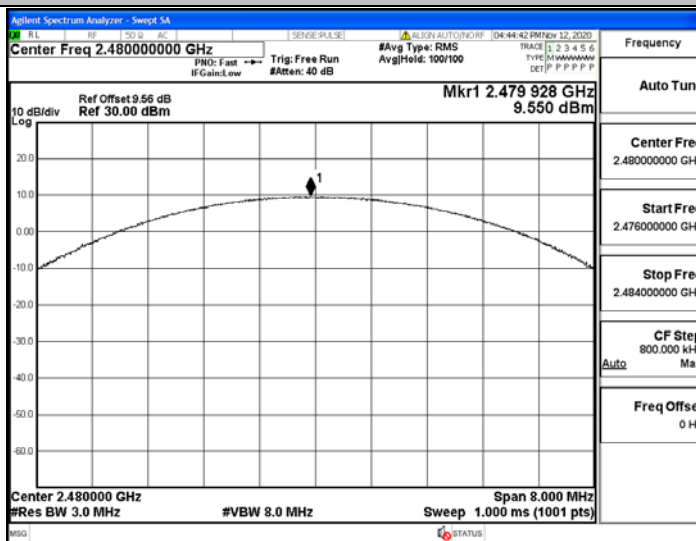
2DH5_Ant3_2402



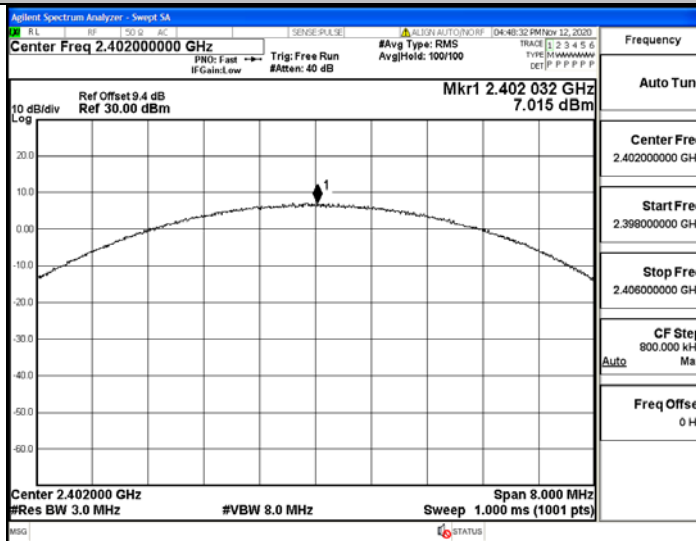
2DH5_Ant3_2441



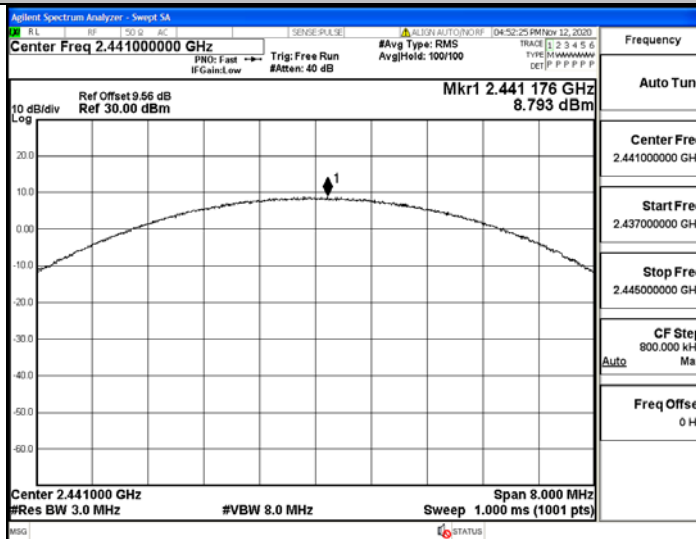
2DH5_Ant3_2480



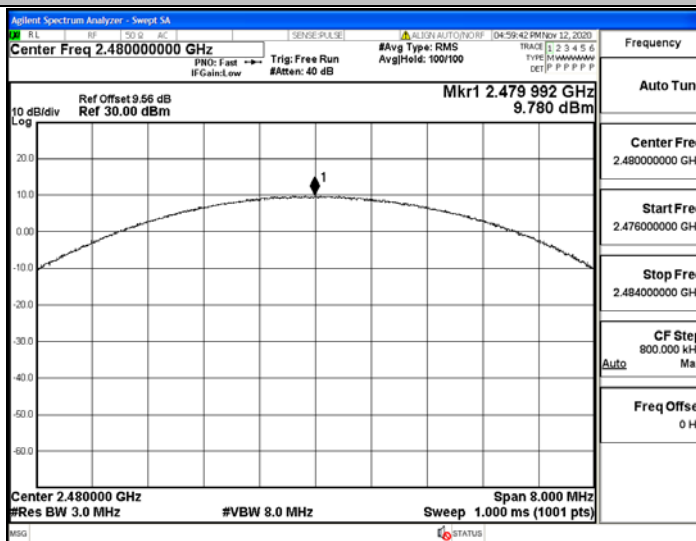
3DH5_Ant3_2402



3DH5_Ant3_2441



3DH5_Ant3_2480

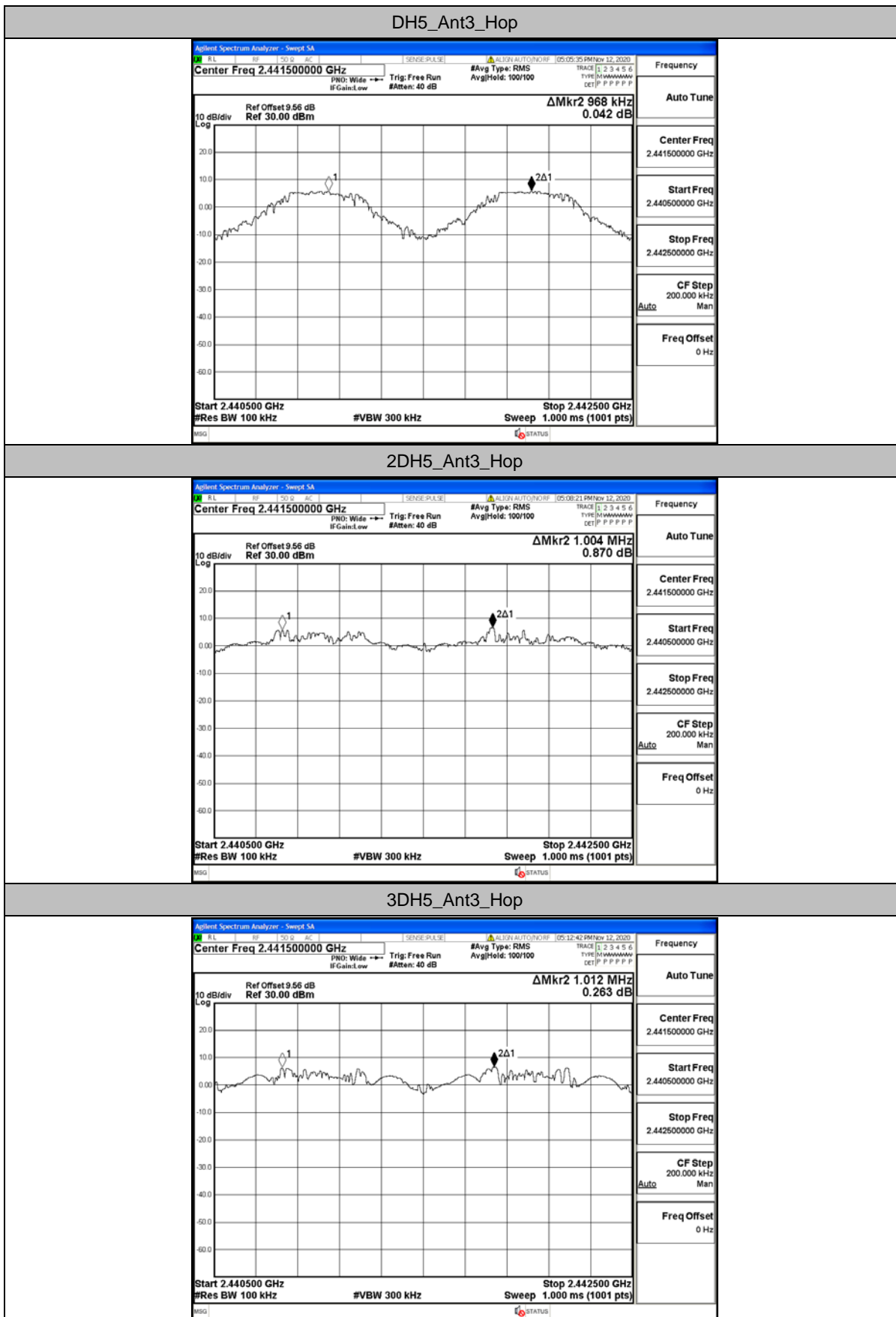


Appendix C: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant3	Hop	0.968	≥ 0.634	PASS
2DH5	Ant3	Hop	1.004	≥ 0.880	PASS
3DH5	Ant3	Hop	1.012	≥ 0.884	PASS

Test Graphs

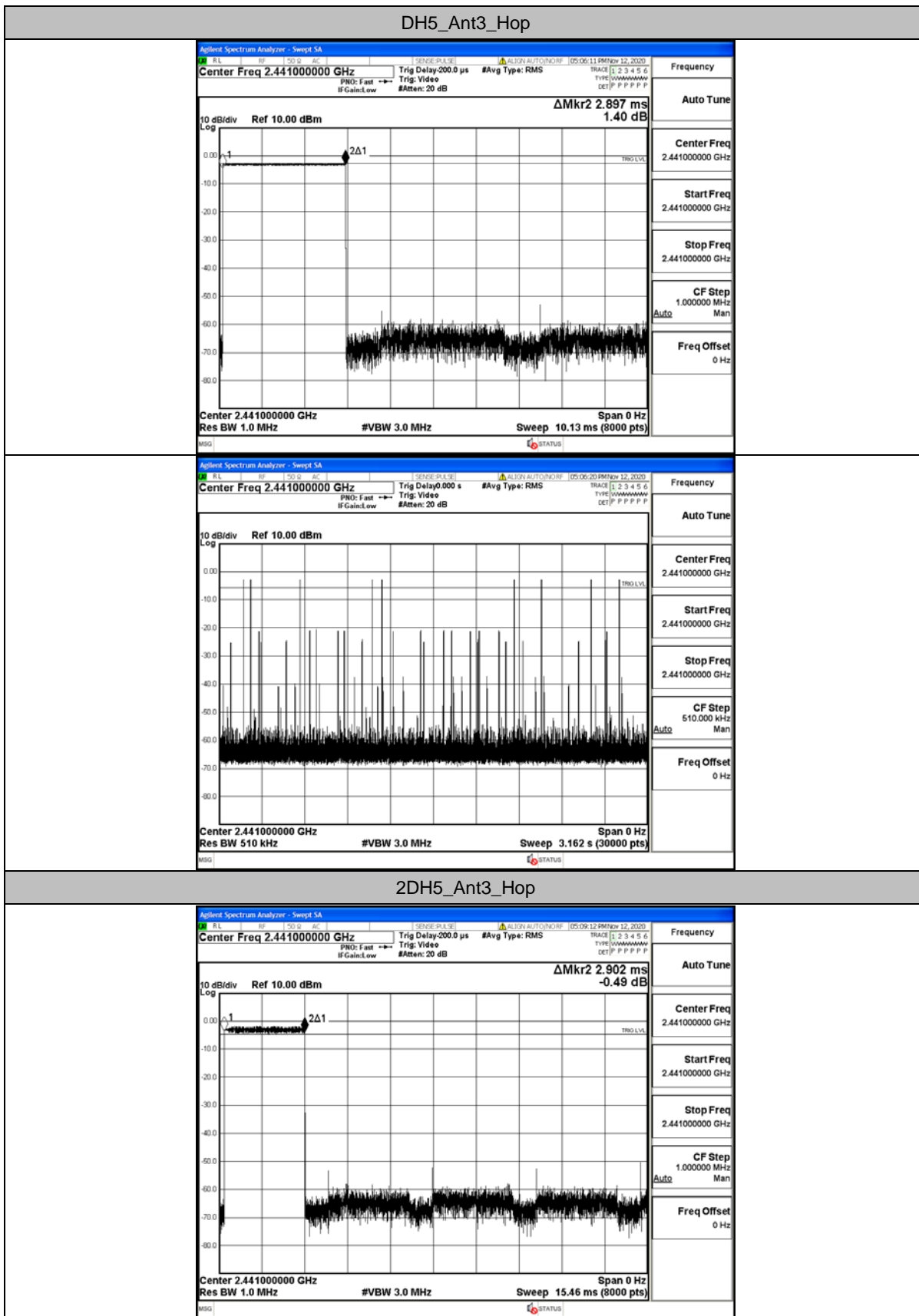


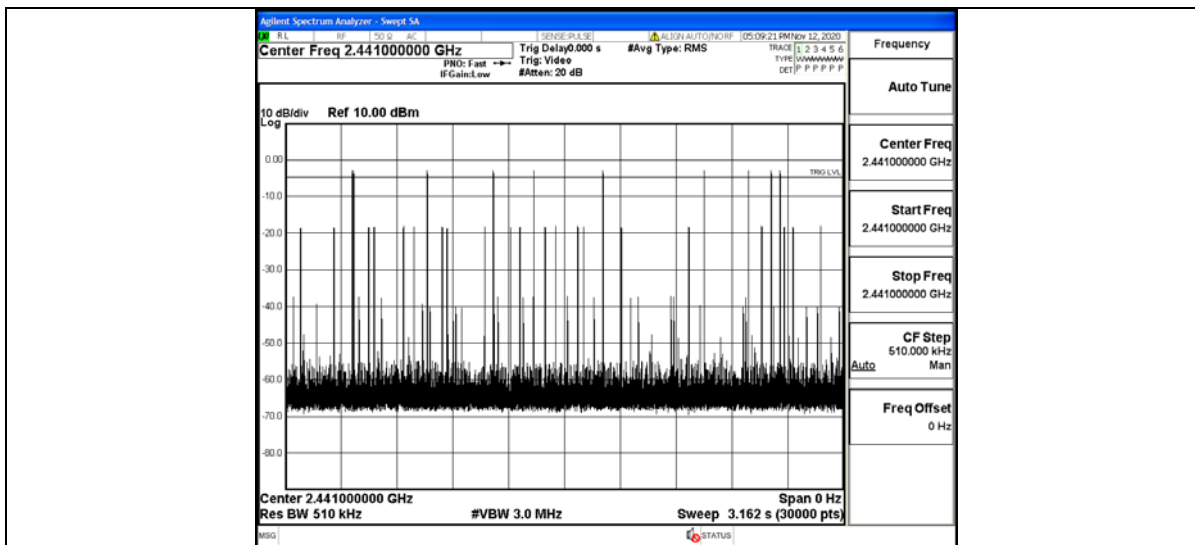
Appendix D: Time of occupancy

Test Result

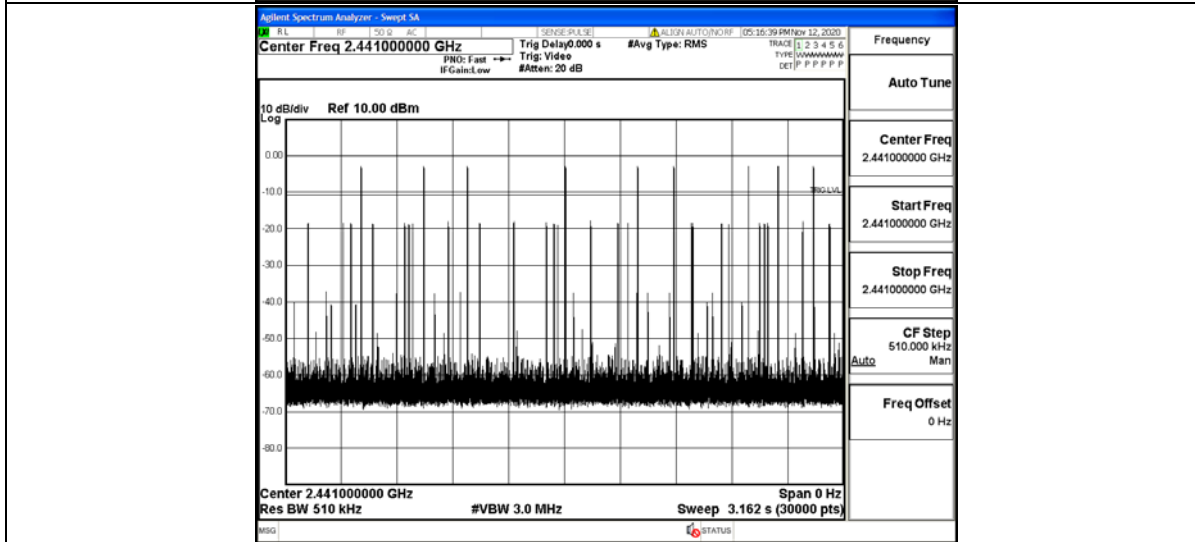
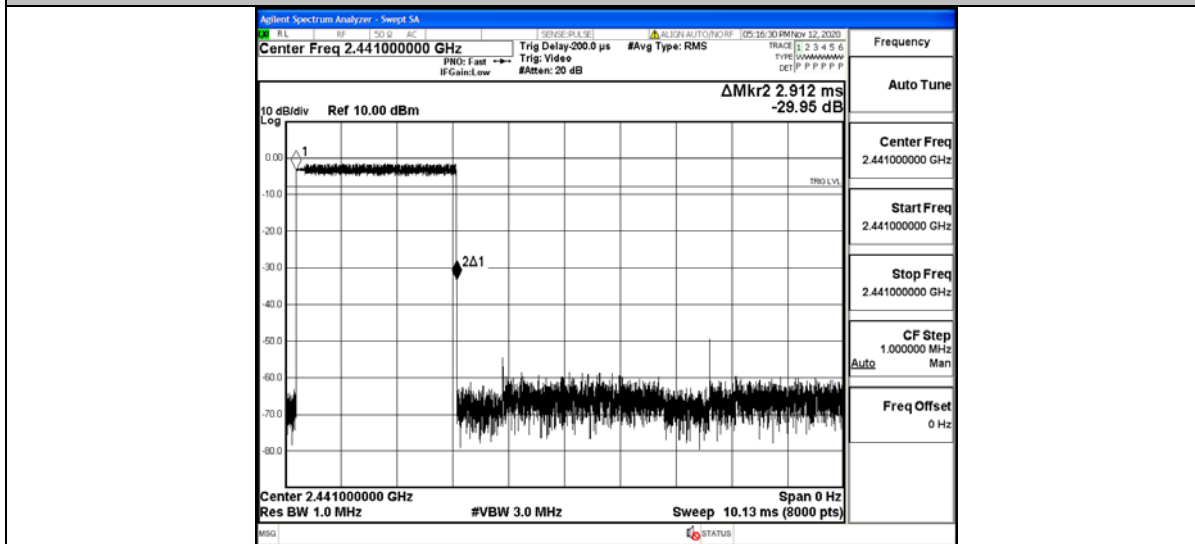
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant3	Hop	2.90	100	0.29	<=0.4	PASS
2DH5	Ant3	Hop	2.90	110	0.319	<=0.4	PASS
3DH5	Ant3	Hop	2.91	100	0.291	<=0.4	PASS

Test Graphs





3DH5_Ant3_Hop

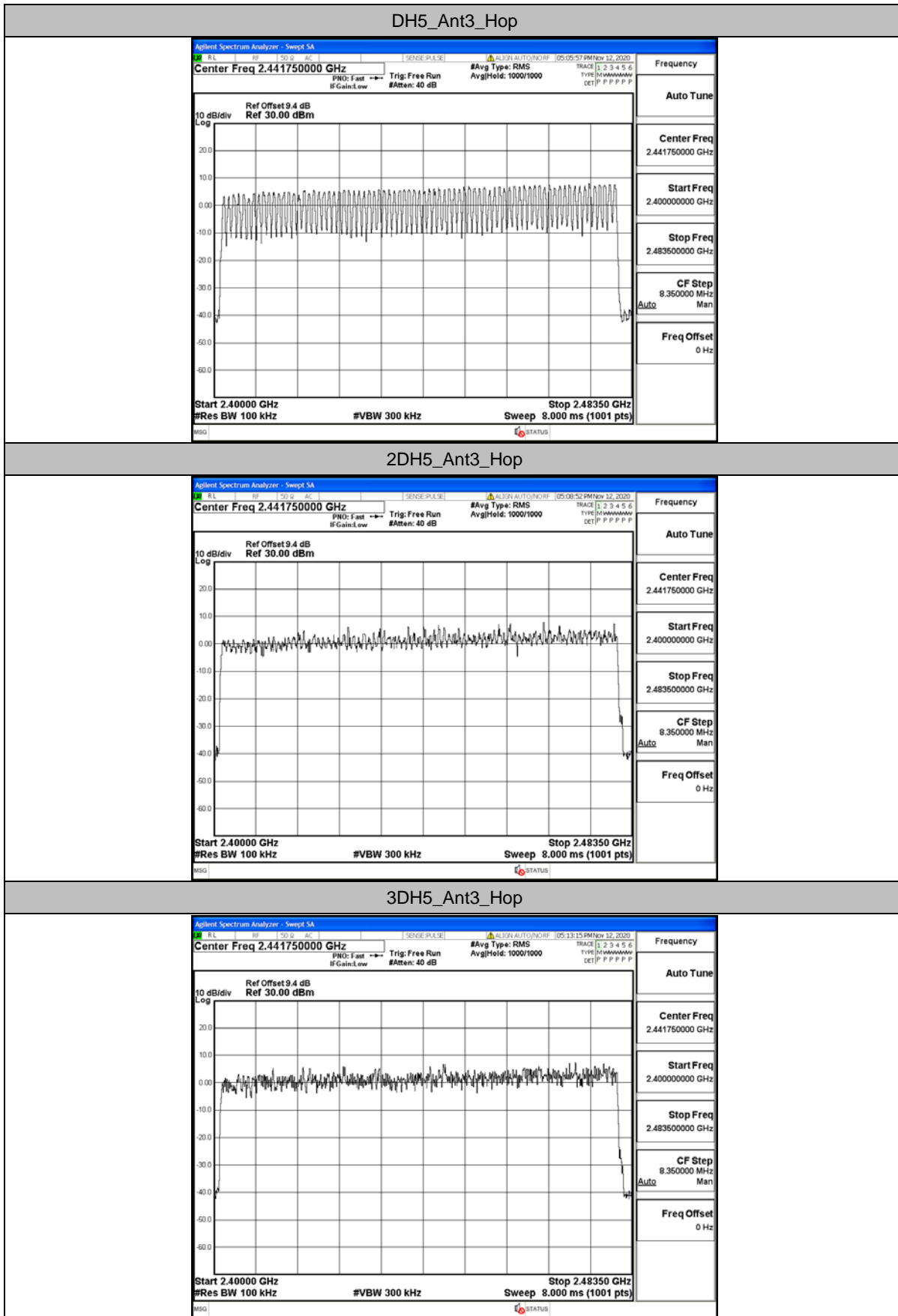


Appendix E: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant3	Hop	79	>=15	PASS
2DH5	Ant3	Hop	79	>=15	PASS
3DH5	Ant3	Hop	79	>=15	PASS

Test Graphs



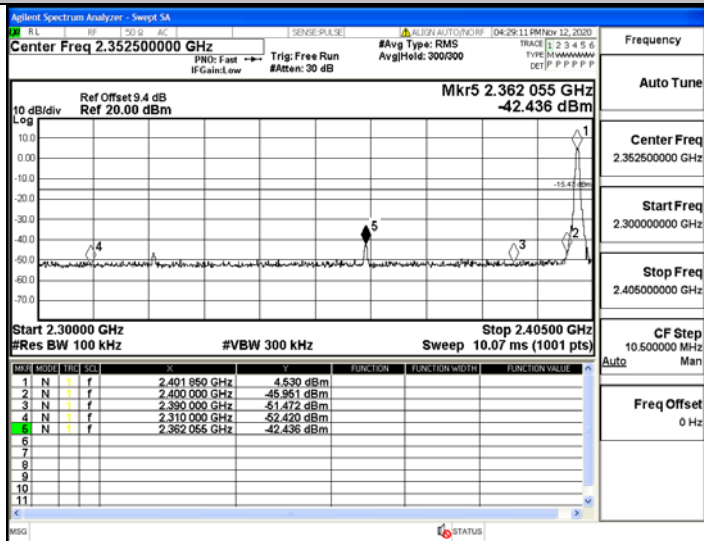
Appendix F: Band edge measurements

Test Result

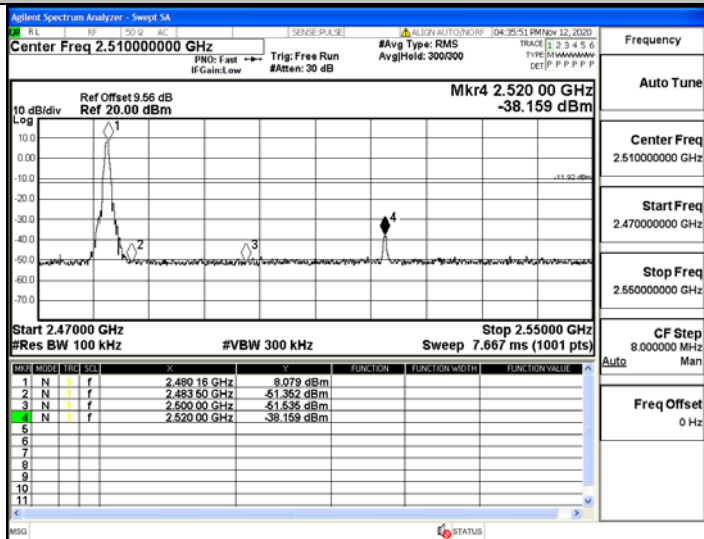
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant3	Low	2402	4.53	-42.44	<=-15.47	PASS
		High	2480	8.08	-38.16	<=-11.92	PASS
		Low	Hop_2402	4.43	-42.3	<=-15.57	PASS
		High	Hop_2480	7.50	-39.04	<=-12.5	PASS
2DH5	Ant3	Low	2402	4.49	-42.53	<=-15.51	PASS
		High	2480	8.10	-38.46	<=-11.9	PASS
		Low	Hop_2402	1.01	-42.94	<=-18.99	PASS
		High	Hop_2480	5.90	-40.35	<=-14.1	PASS
3DH5	Ant3	Low	2402	4.24	-43.39	<=-15.76	PASS
		High	2480	7.45	-39.11	<=-12.56	PASS
		Low	Hop_2402	1.73	-43.12	<=-18.27	PASS
		High	Hop_2480	8.18	-39.82	<=-11.82	PASS

Test Graphs

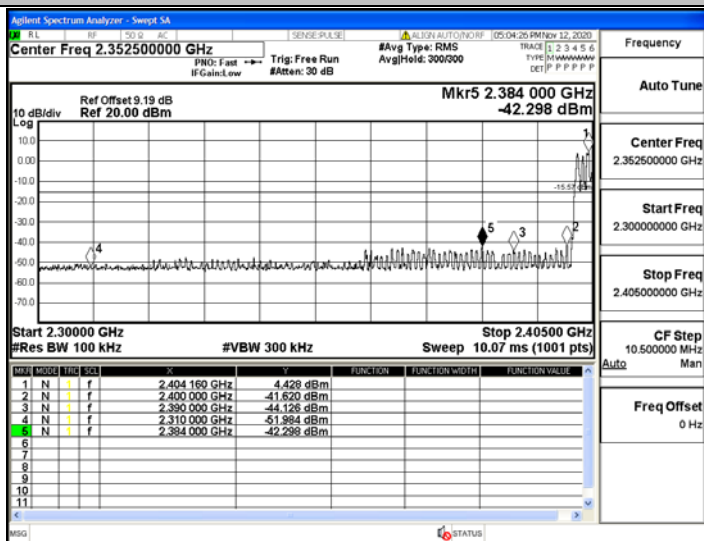
DH5_Ant3_Low_2402



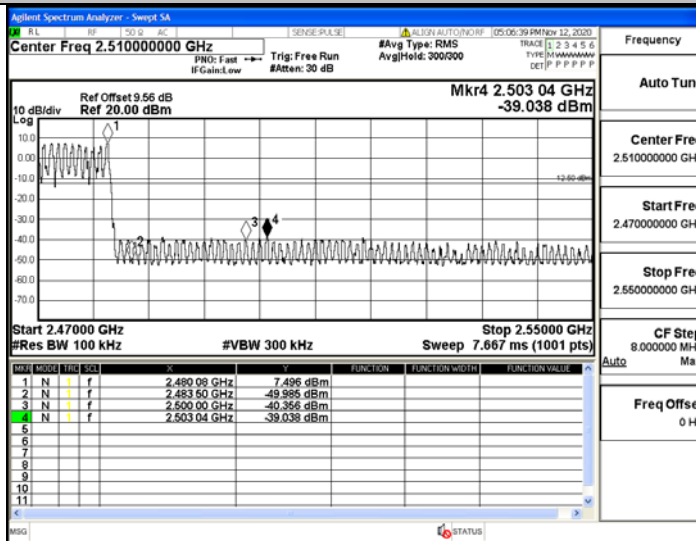
DH5_Ant3_High_2480



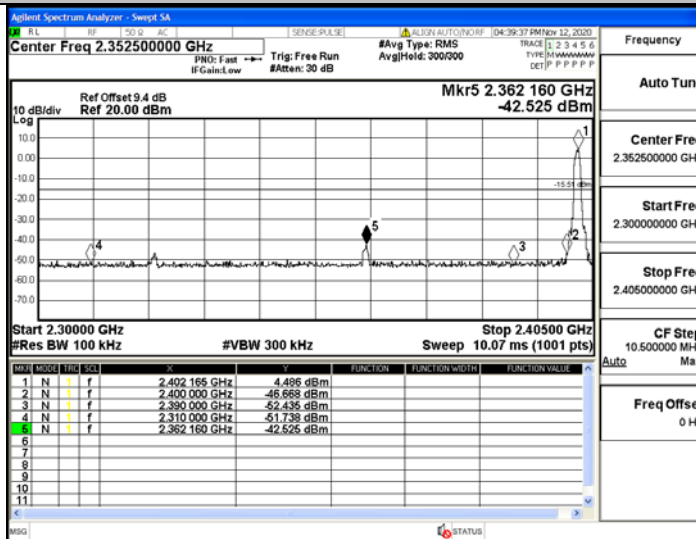
DH5_Ant3_Low_Hop_2402



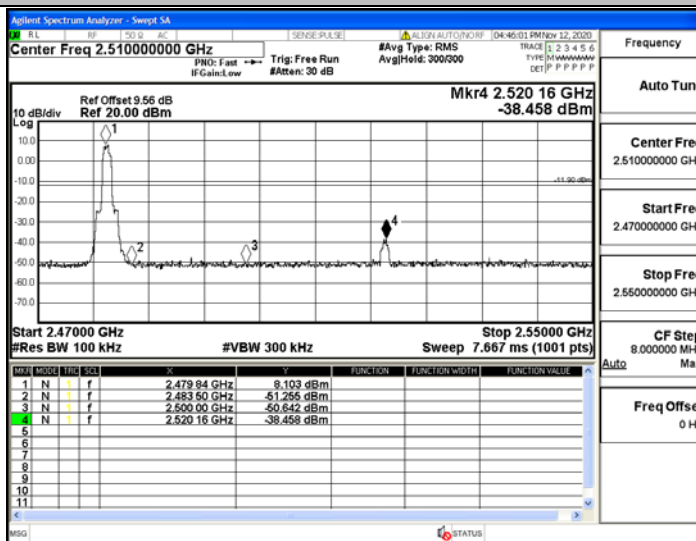
DH5_Ant3_High_Hop_2480



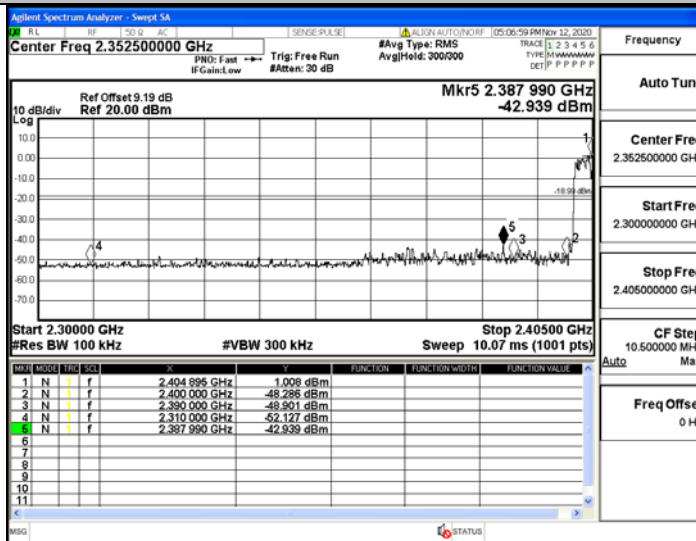
2DH5_Ant3_Low_2402



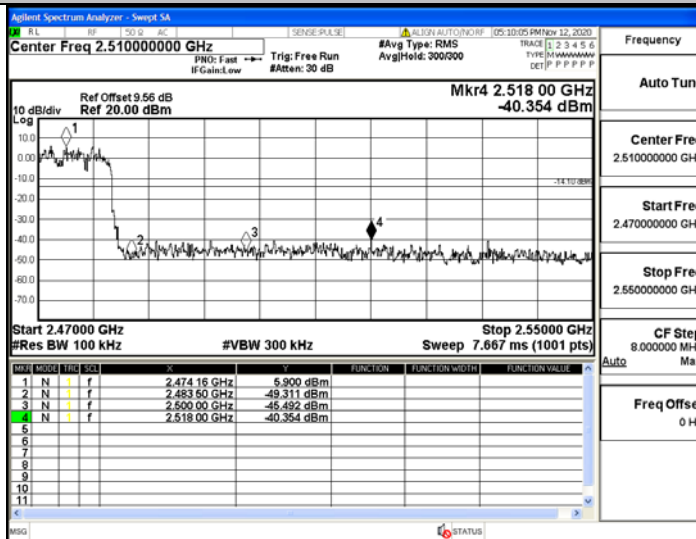
2DH5_Ant3_High_2480



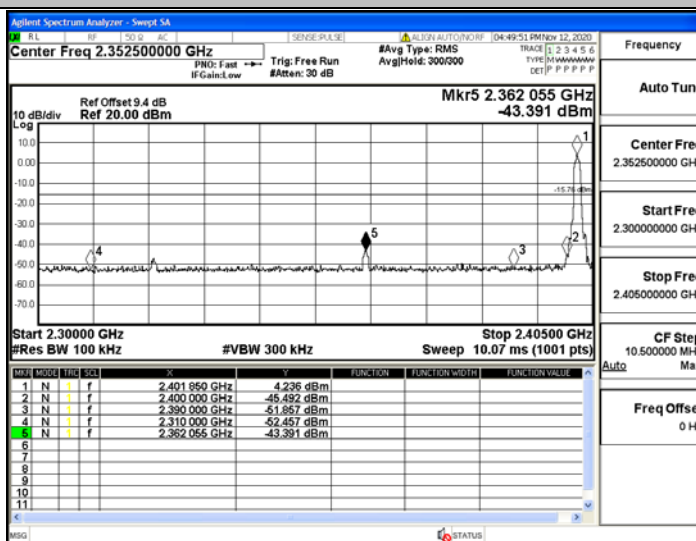
2DH5_Ant3_Low_Hop_2402



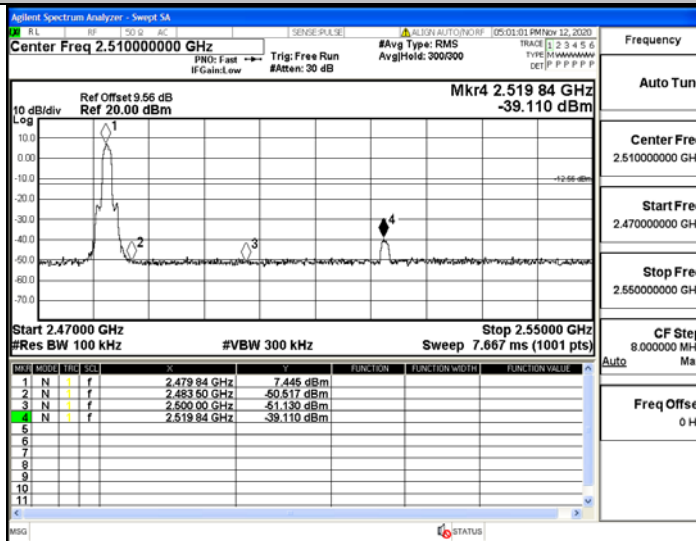
2DH5_Ant3_High_Hop_2480



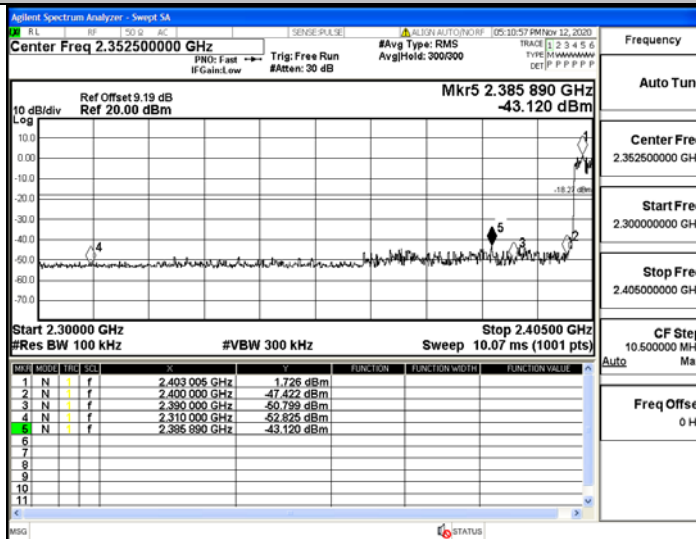
3DH5_Ant3_Low_2402



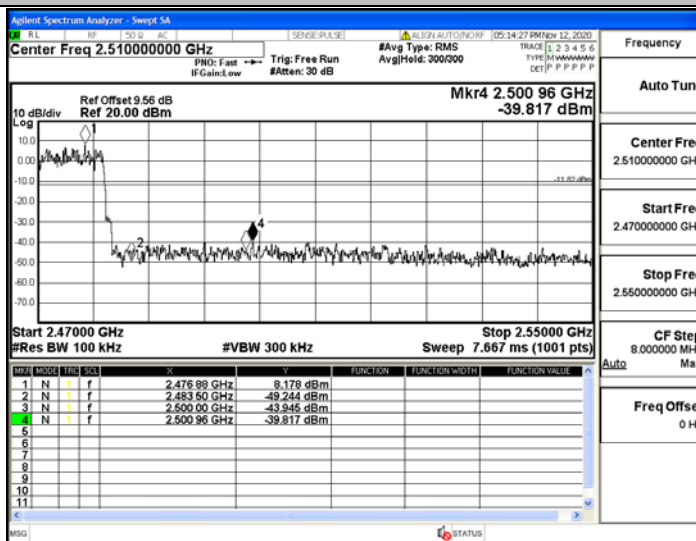
3DH5_Ant3_High_2480



3DH5_Ant3_Low_Hop_2402



3DH5_Ant3_High_Hop_2480



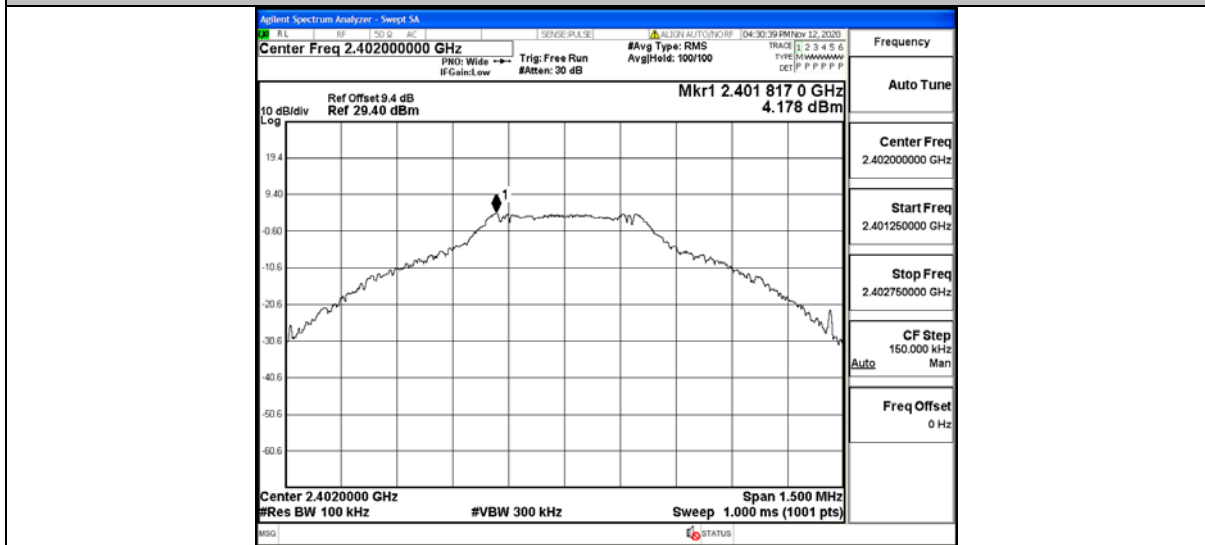
Appendix G: Conducted Spurious Emission

Test Result

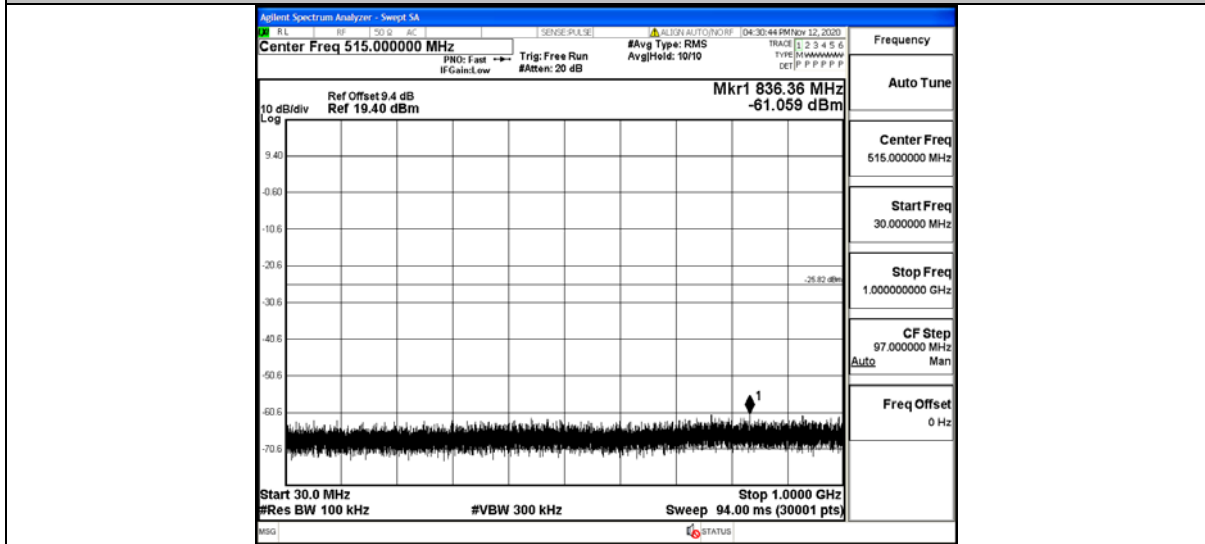
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant3	2402	Reference	-2.59	4.18	---	PASS
			30~1000	-2.59	-61.059	<=-25.822	PASS
			1000~26500	-2.59	-41.776	<=-25.822	PASS
		2441	Reference	1.20	6.49	---	PASS
			30~1000	1.20	-60.224	<=-23.509	PASS
			1000~26500	1.20	-42.053	<=-23.509	PASS
		2480	Reference	4.05	8.05	---	PASS
			30~1000	4.05	-60.673	<=-21.946	PASS
			1000~26500	4.05	-41.854	<=-21.946	PASS
2DH5	Ant3	2402	Reference	-2.58	4.36	---	PASS
			30~1000	-2.58	-61.281	<=-25.638	PASS
			1000~26500	-2.58	-44.998	<=-25.638	PASS
		2441	Reference	1.53	6.42	---	PASS
			30~1000	1.53	-60.637	<=-23.582	PASS
			1000~26500	1.53	-44.742	<=-23.582	PASS
		2480	Reference	4.04	7.91	---	PASS
			30~1000	4.04	-59.991	<=-22.091	PASS
			1000~26500	4.04	-43.035	<=-22.091	PASS
3DH5	Ant3	2402	Reference	-2.59	4.28	---	PASS
			30~1000	-2.59	-60.965	<=-25.717	PASS
			1000~26500	-2.59	-46.144	<=-25.717	PASS
		2441	Reference	1.49	6.26	---	PASS
			30~1000	1.49	-60.972	<=-23.74	PASS
			1000~26500	1.49	-42.377	<=-23.74	PASS
		2480	Reference	4.03	7.60	---	PASS
			30~1000	4.03	-60.826	<=-22.399	PASS
			1000~26500	4.03	-41.83	<=-22.399	PASS

Test Graphs

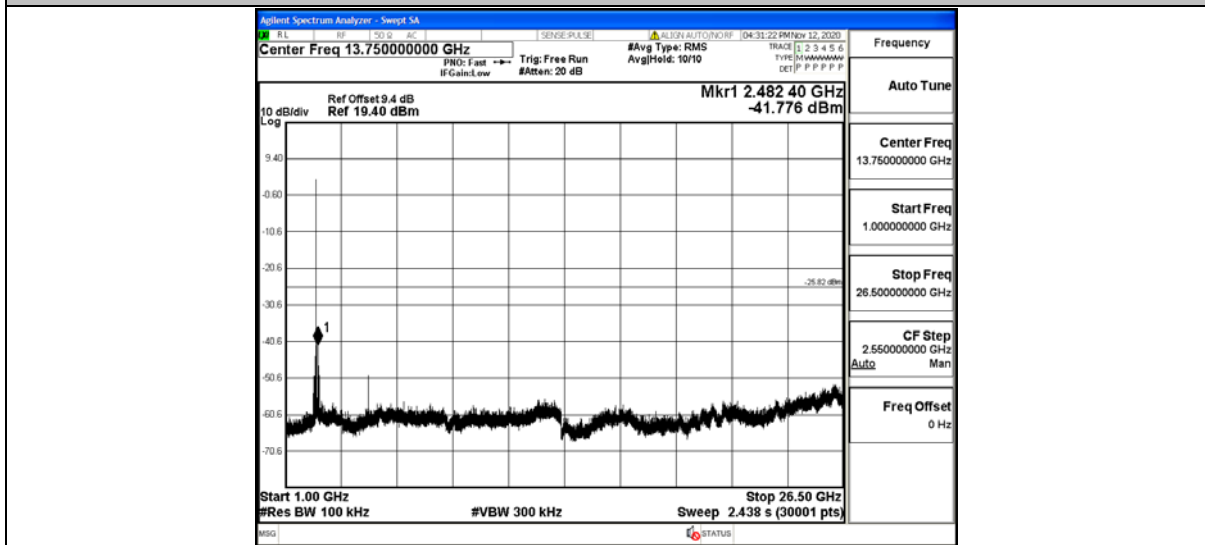
DH5_Ant3_2402_0~Reference



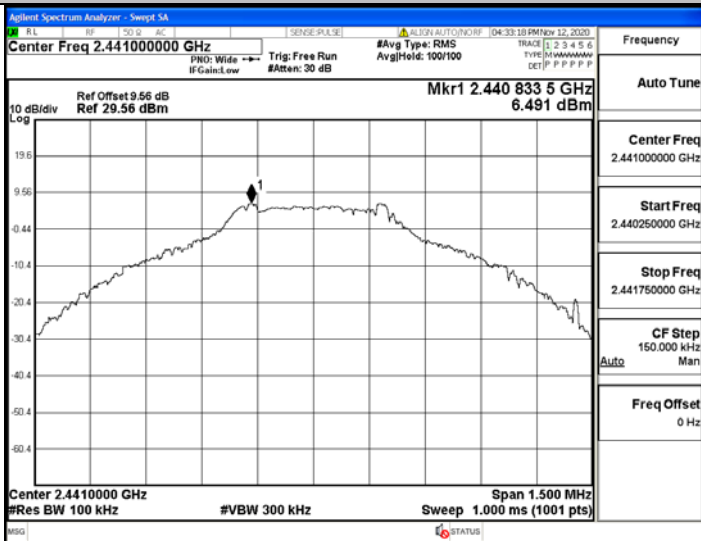
DH5_Ant3_2402_30~1000



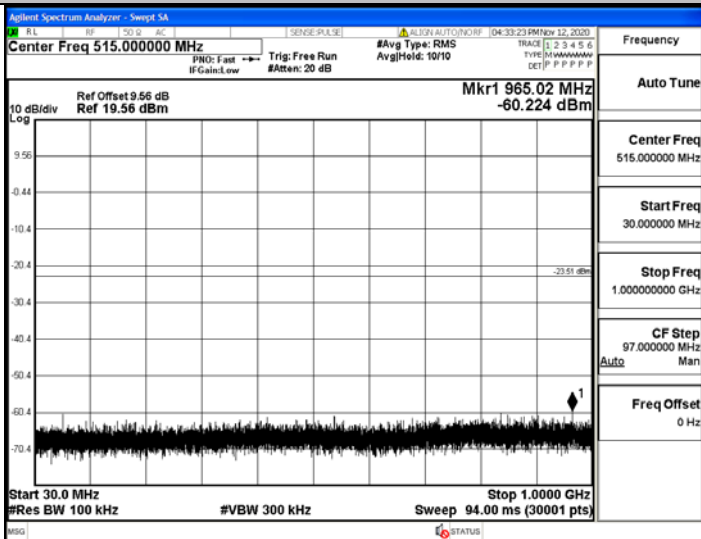
DH5_Ant3_2402_1000~26500



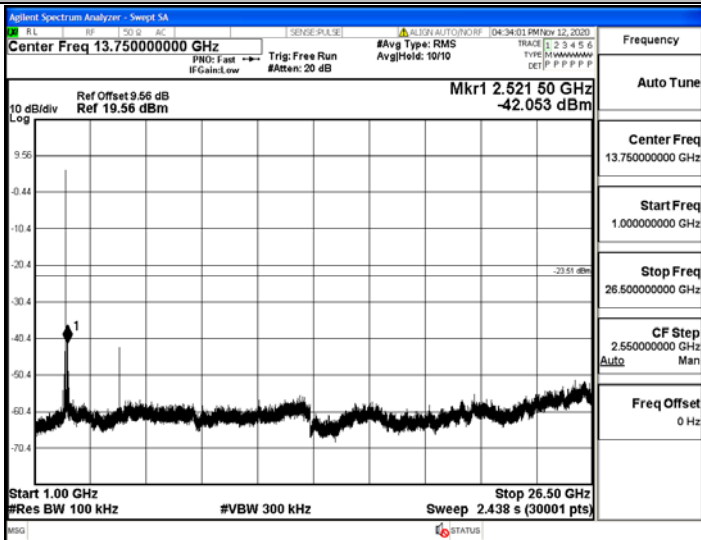
DH5_Ant3_2441_0~Reference



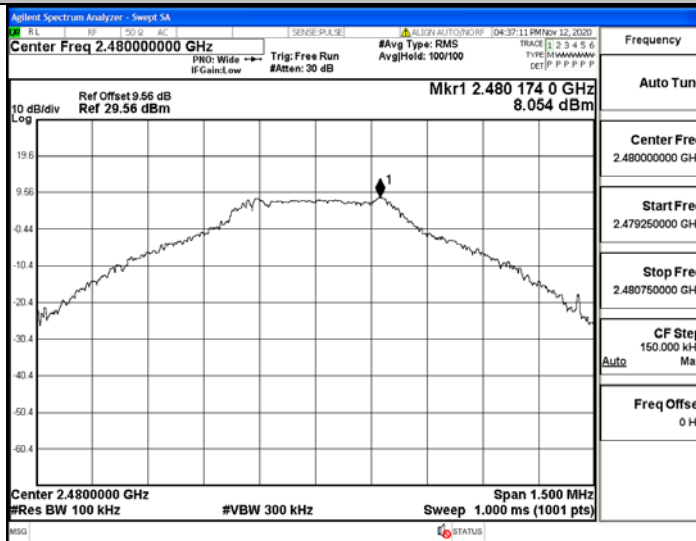
DH5_Ant3_2441_30~1000



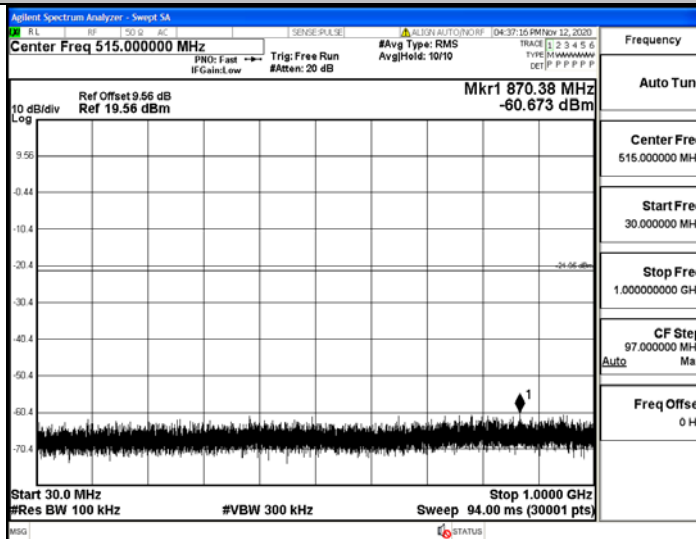
DH5_Ant3_2441_1000~26500



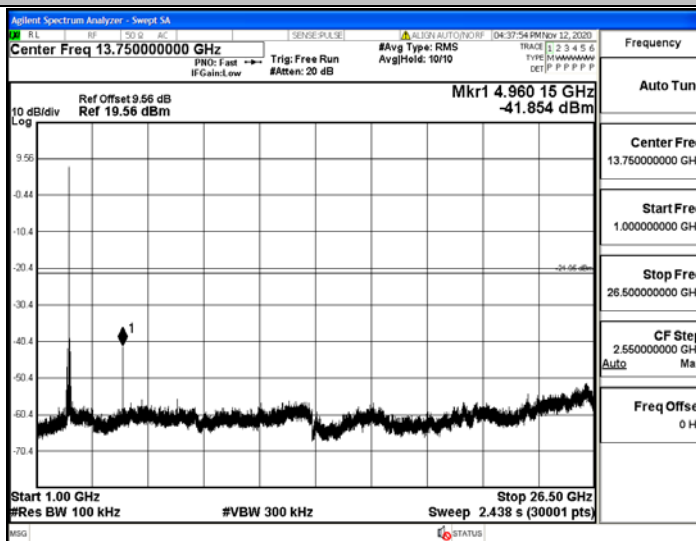
DH5_Ant3_2480_0~Reference



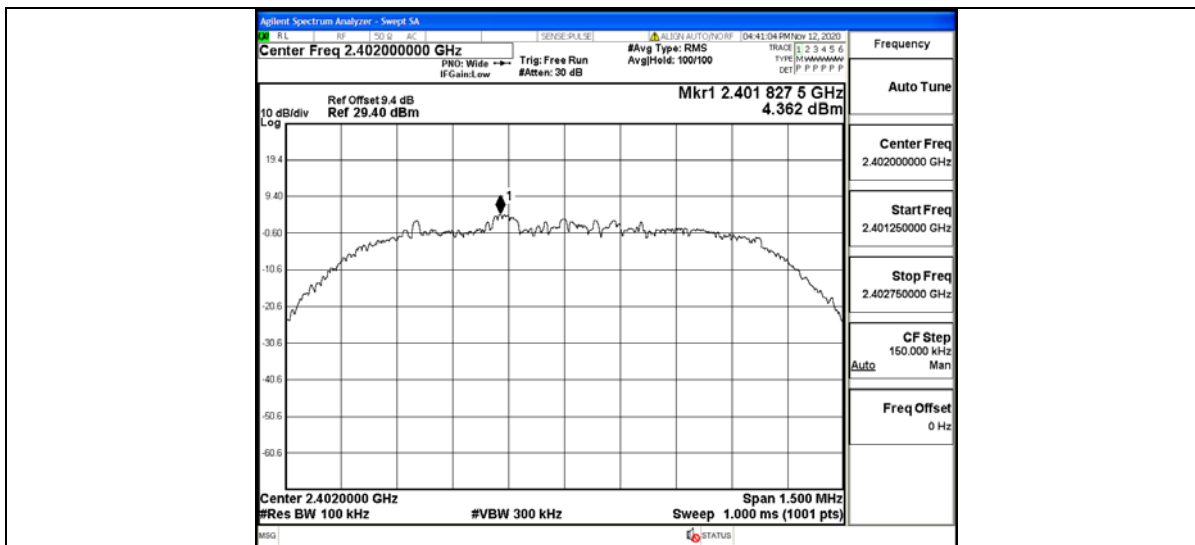
DH5_Ant3_2480_30~1000



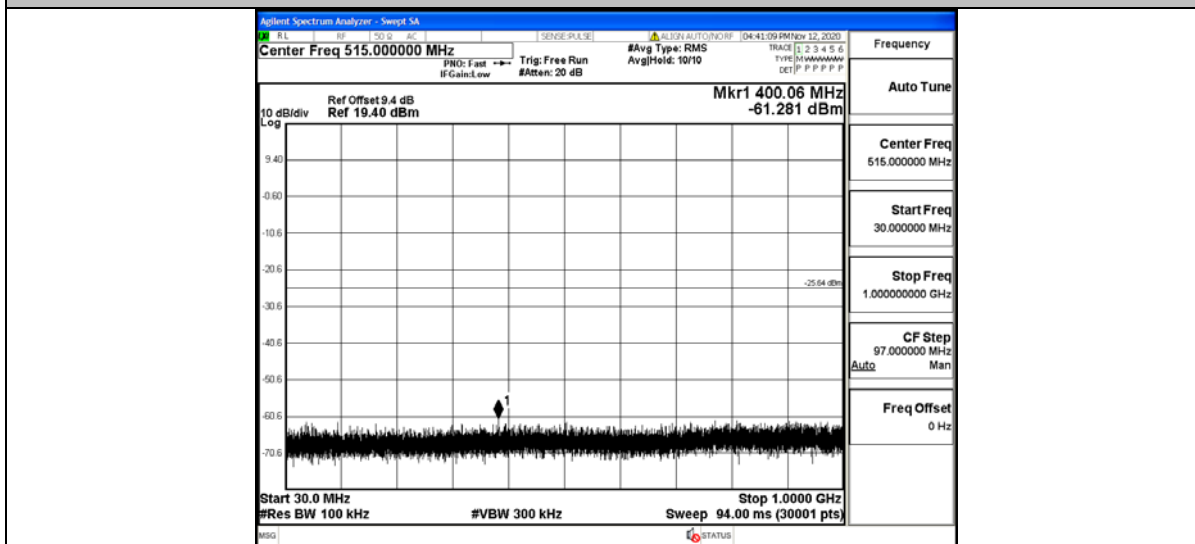
DH5_Ant3_2480_1000~26500



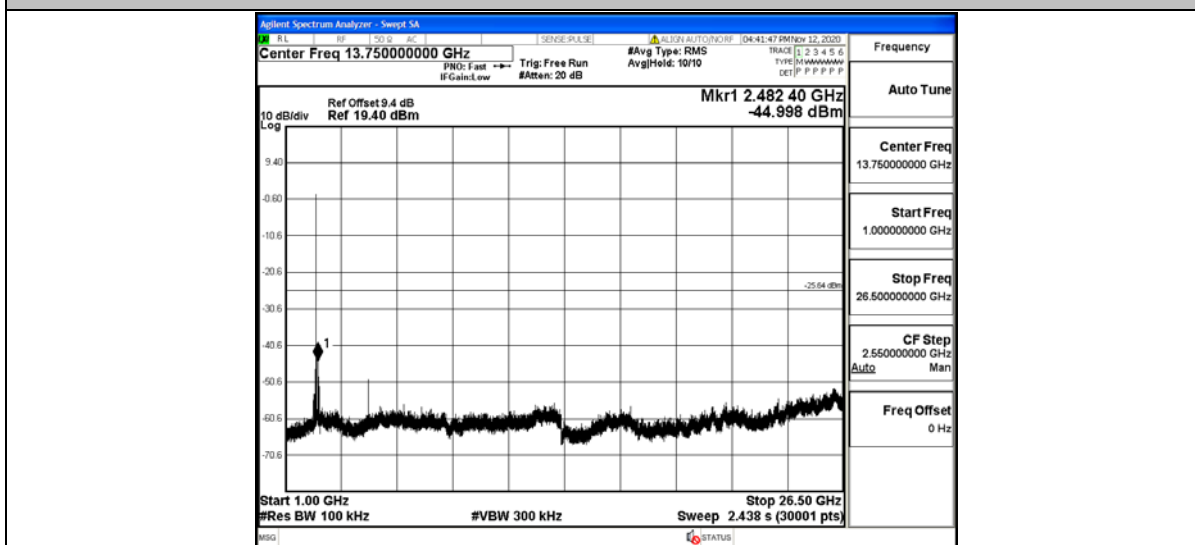
2DH5_Ant3_2402_0~Reference



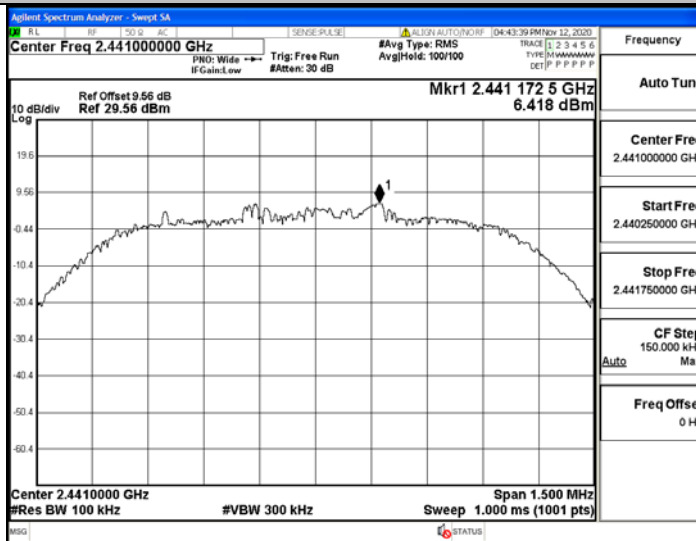
2DH5_Ant3_2402_30~1000



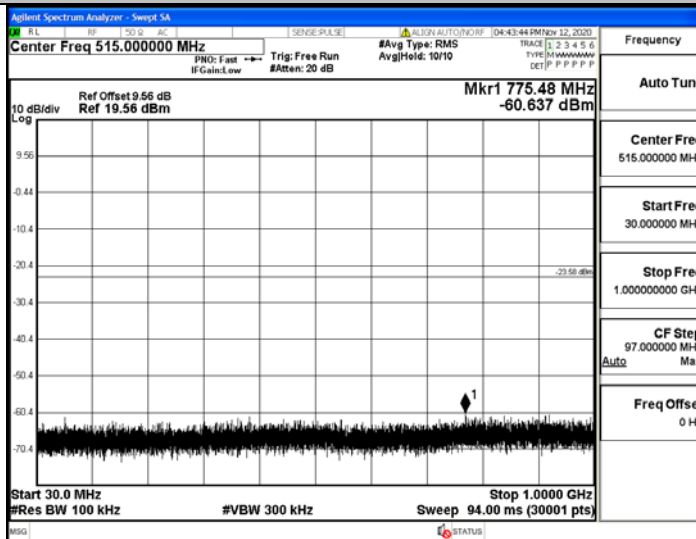
2DH5_Ant3_2402_1000~26500



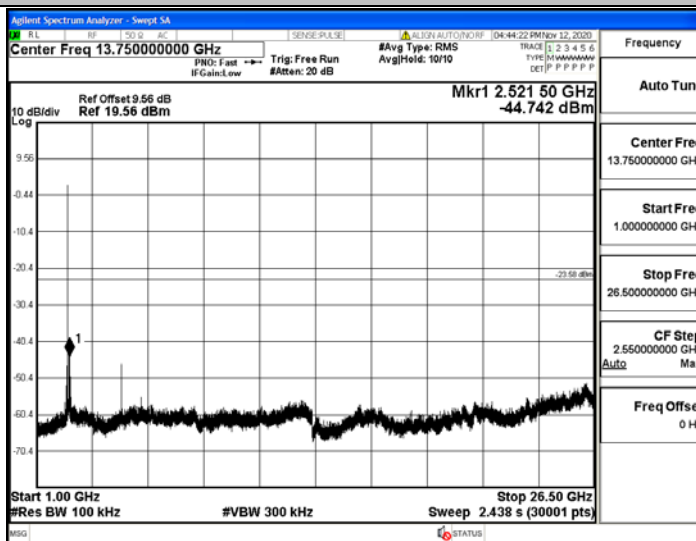
2DH5_Ant3_2441_0~Reference



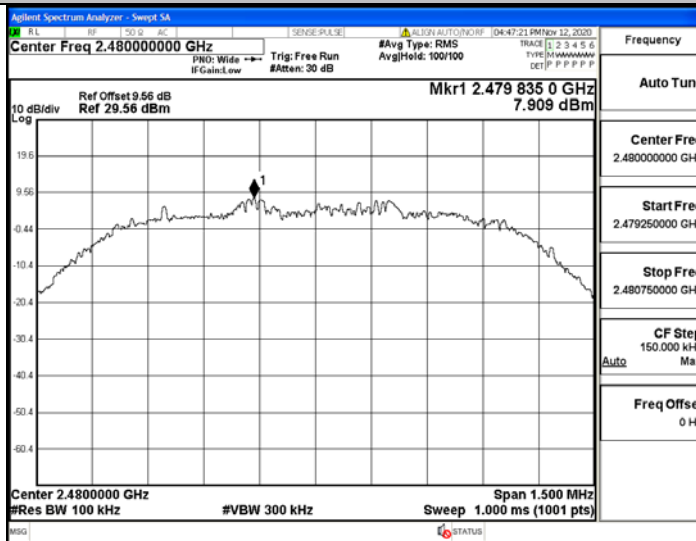
2DH5_Ant3_2441_30~1000



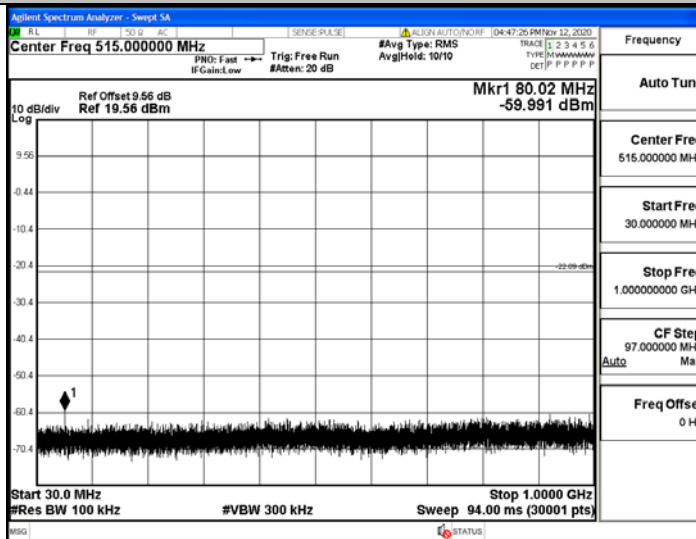
2DH5_Ant3_2441_1000~26500



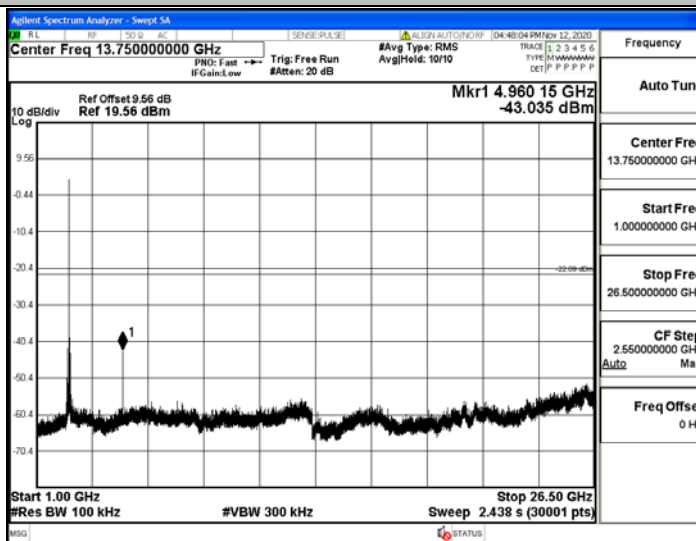
2DH5_Ant3_2480_0~Reference



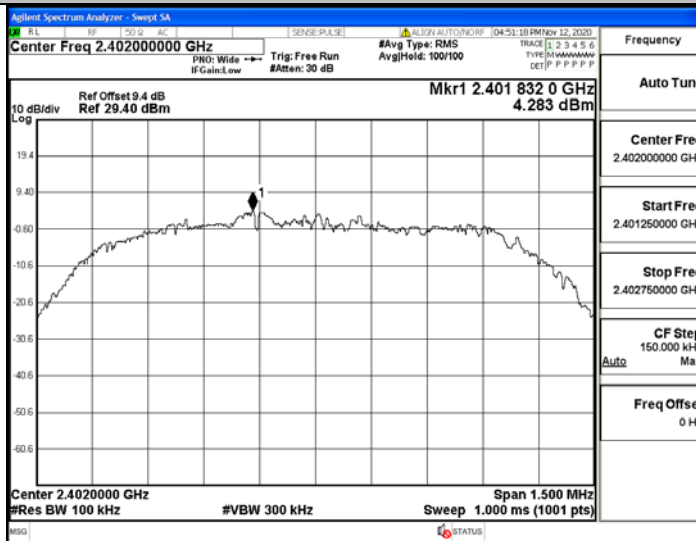
2DH5_Ant3_2480_30~1000



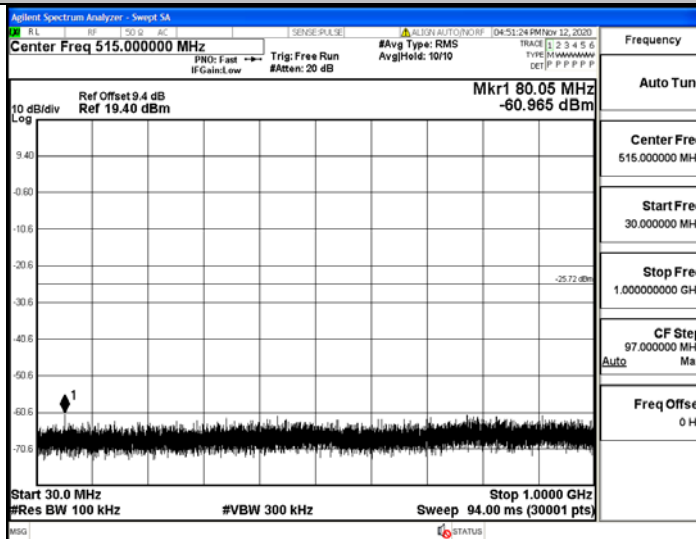
2DH5_Ant3_2480_1000~26500



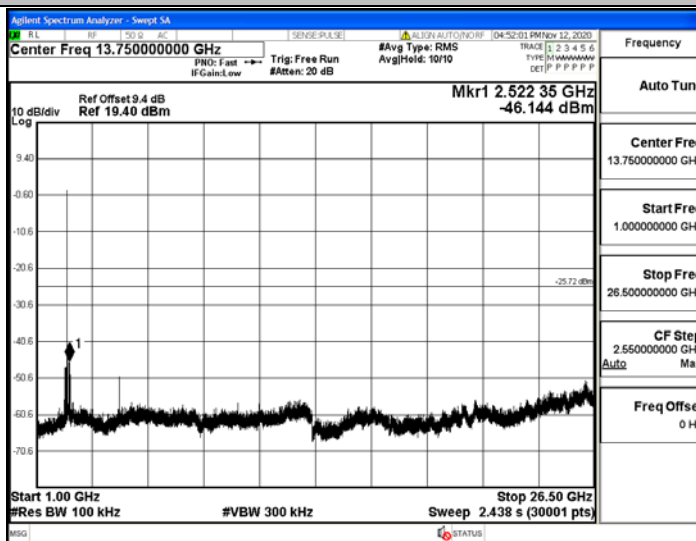
3DH5_Ant3_2402_0~Reference



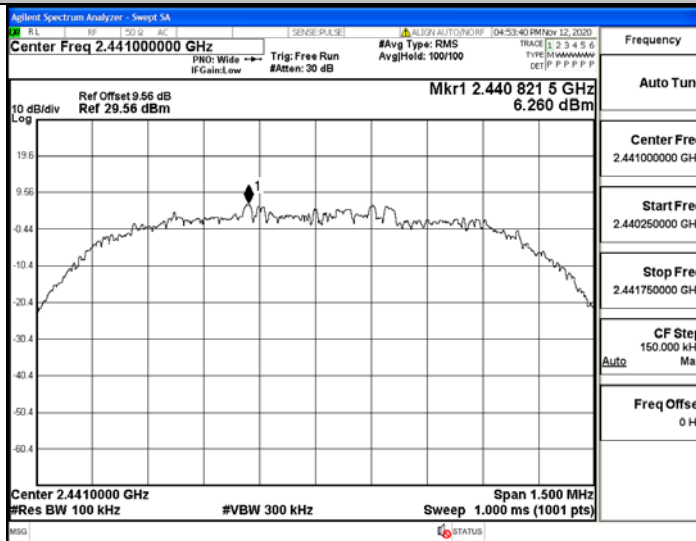
3DH5_Ant3_2402_30~1000



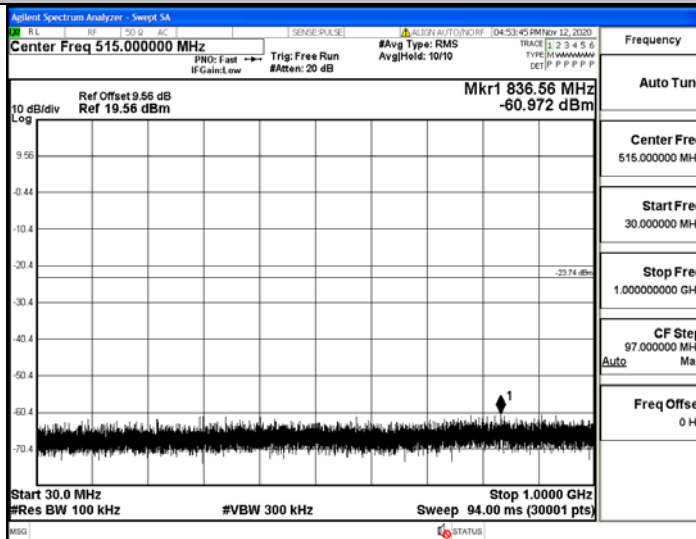
3DH5_Ant3_2402_1000~26500



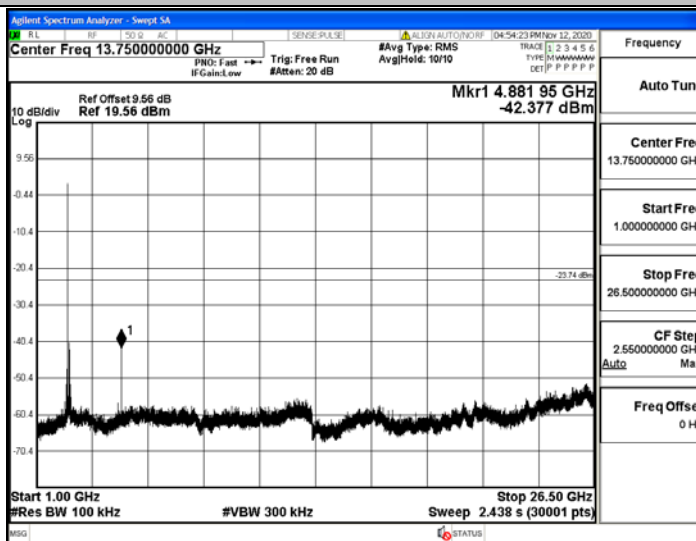
3DH5_Ant3_2441_0~Reference



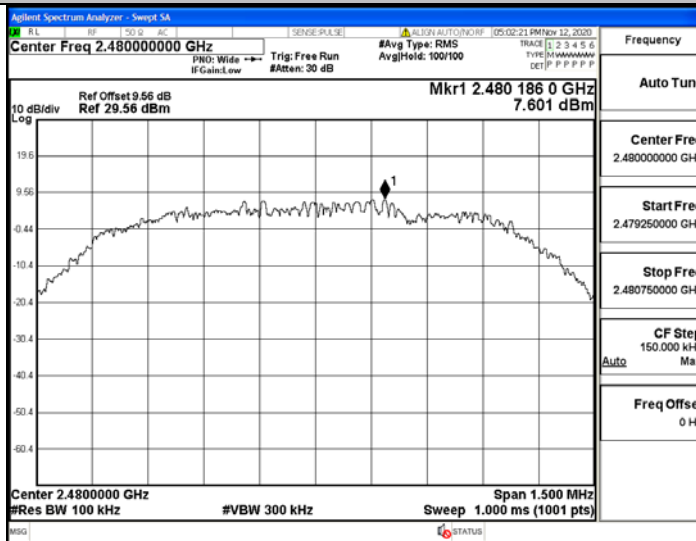
3DH5_Ant3_2441_30~1000



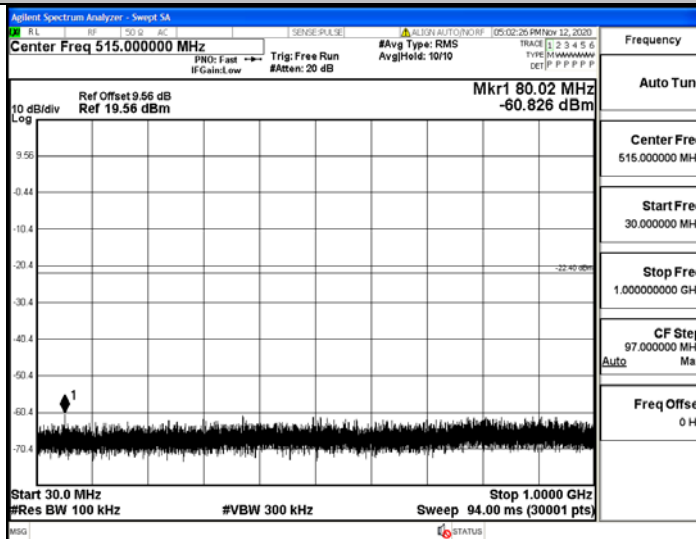
3DH5_Ant3_2441_1000~26500



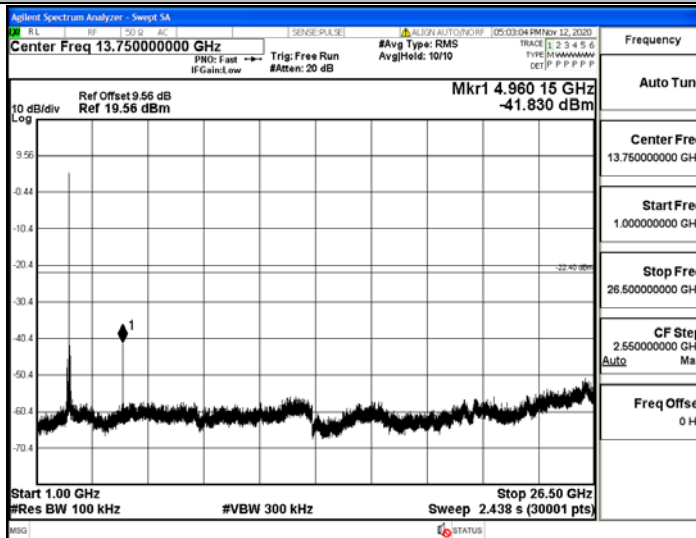
3DH5_Ant3_2480_0~Reference



3DH5_Ant3_2480_30~1000



3DH5_Ant3_2480_1000~26500



Appendix H: Emissions in Restricted Bands

Test Result

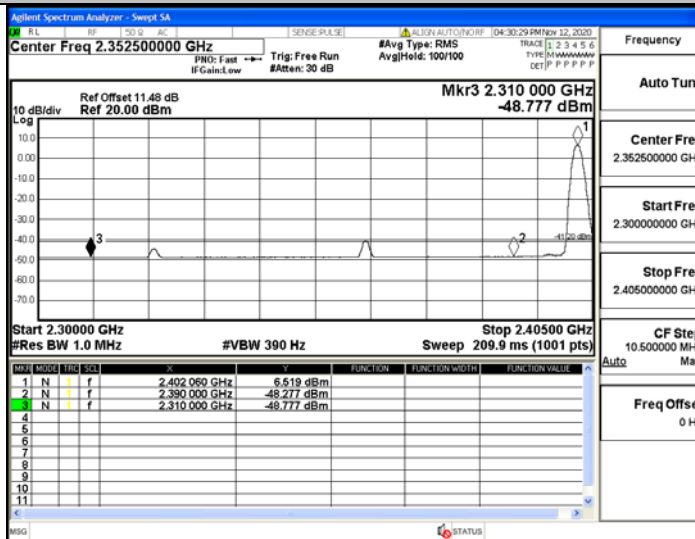
TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant3	Low	2402	AV	2310.000	-48.78	<=-41.20	PASS
				AV	2390.000	-48.28	<=-41.20	PASS
				Peak	2310.000	-39.81	<=-21.20	PASS
				Peak	2390.000	-41.99	<=-21.20	PASS
		High	2480	AV	2483.500	-45.54	<=-41.20	PASS
				AV	2500.000	-47.17	<=-41.20	PASS
				Peak	2483.500	-36.47	<=-21.20	PASS
				Peak	2500.000	-39.82	<=-21.20	PASS
2DH5	Ant3	Low	2402	AV	2310.000	-48.86	<=-41.20	PASS
				AV	2390.000	-48.41	<=-41.20	PASS
				Peak	2310.000	-42.28	<=-21.20	PASS
				Peak	2390.000	-40.44	<=-21.20	PASS
		High	2480	AV	2483.500	-44.78	<=-41.20	PASS
				AV	2500.000	-47.3	<=-41.20	PASS
				Peak	2483.500	-37.92	<=-21.20	PASS
				Peak	2500.000	-41.98	<=-21.20	PASS
3DH5	Ant3	Low	2402	AV	2310.000	-48.78	<=-41.20	PASS
				AV	2390.000	-48.37	<=-41.20	PASS
				Peak	2310.000	-40.63	<=-21.20	PASS
				Peak	2390.000	-41.56	<=-21.20	PASS
		High	2480	AV	2483.500	-44.74	<=-41.20	PASS
				AV	2500.000	-47.3	<=-41.20	PASS
				Peak	2483.500	-39.41	<=-21.20	PASS
				Peak	2500.000	-40.15	<=-21.20	PASS

Note:

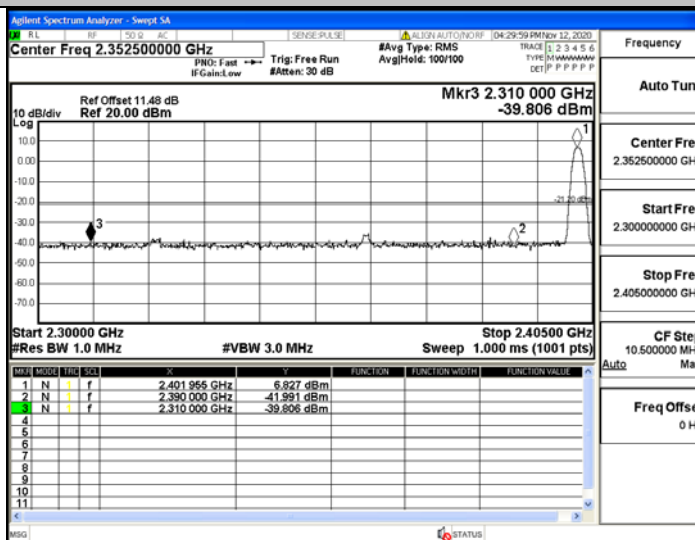
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

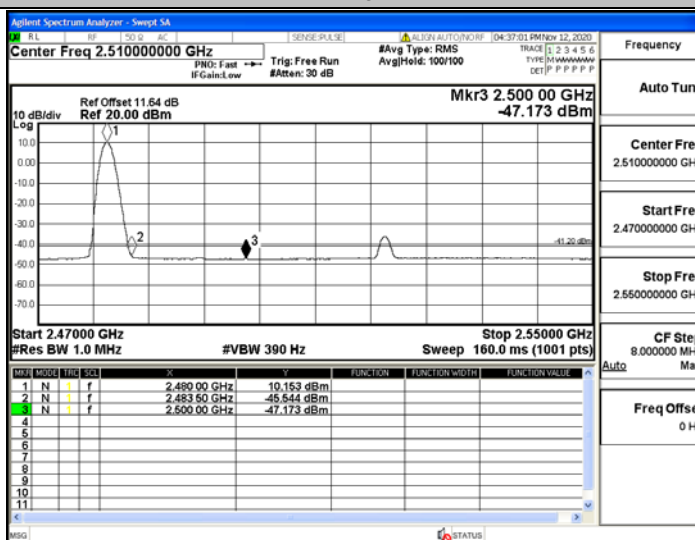
DH5_Ant3_Low_2402_AV



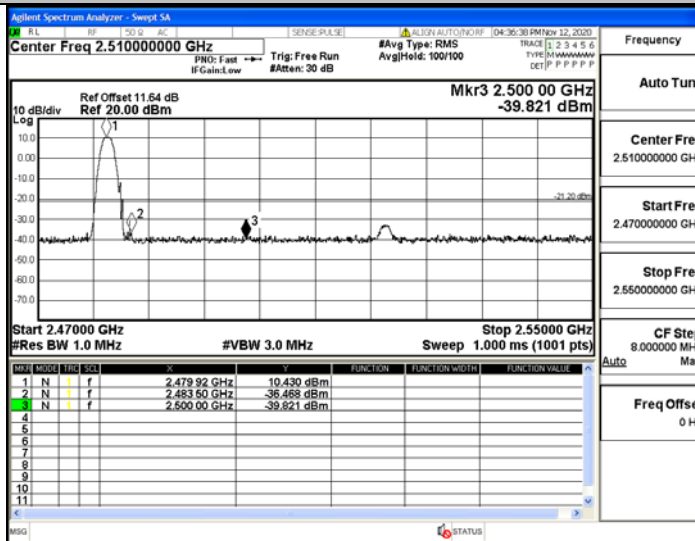
DH5_Ant3_Low_2402_Peak



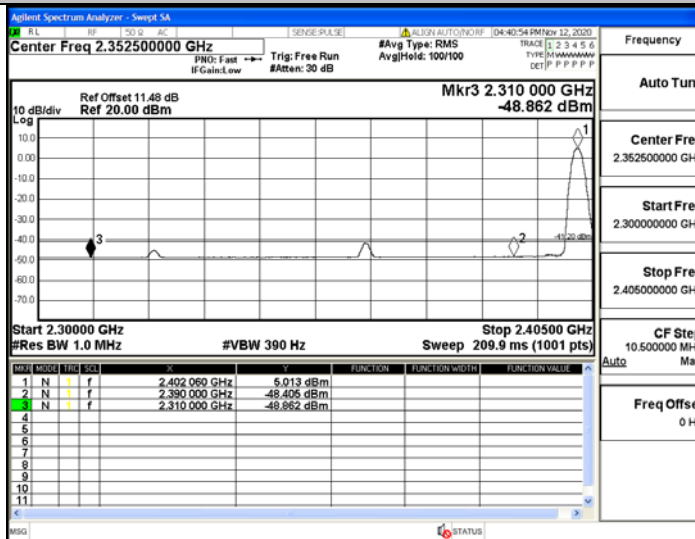
DH5_Ant3_High_2480_AV



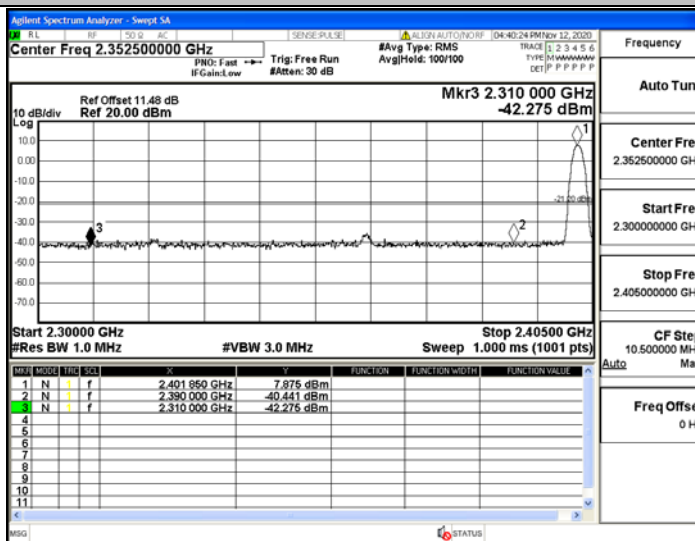
DH5_Ant3_High_2480_Peak



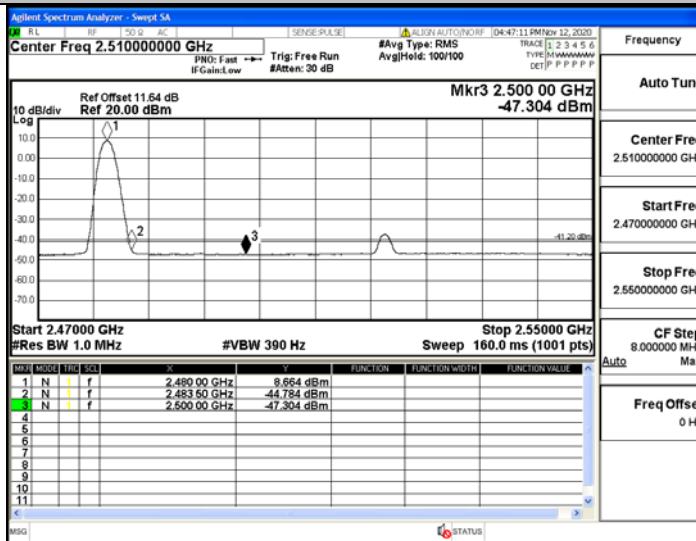
2DH5_Ant3_Low_2402_AV



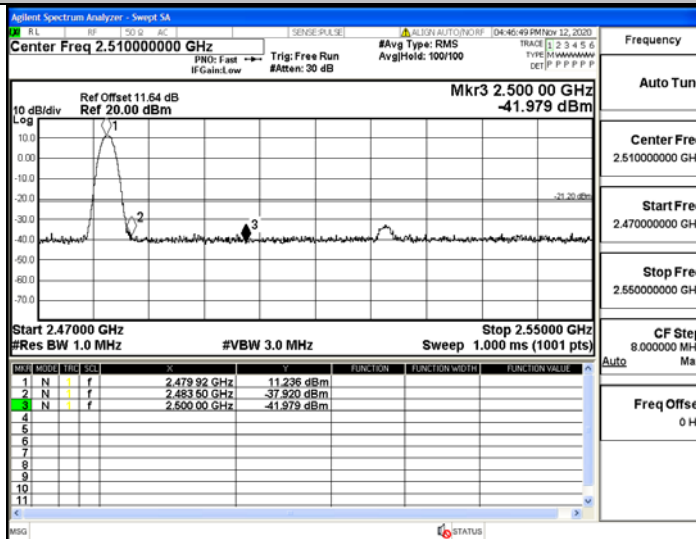
2DH5_Ant3_Low_2402_Peak



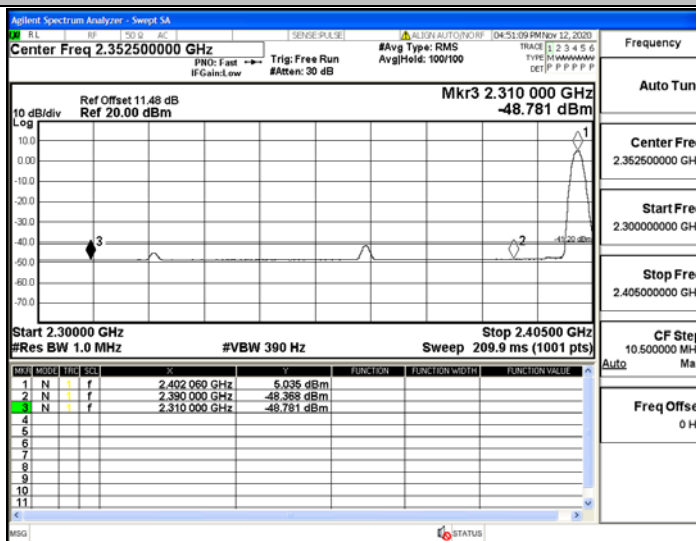
2DH5_Ant3_High_2480_AV



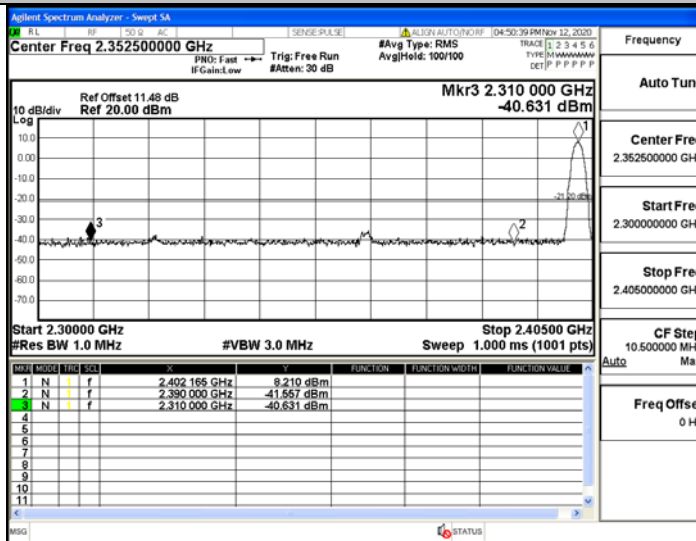
2DH5_Ant3_High_2480_Peak



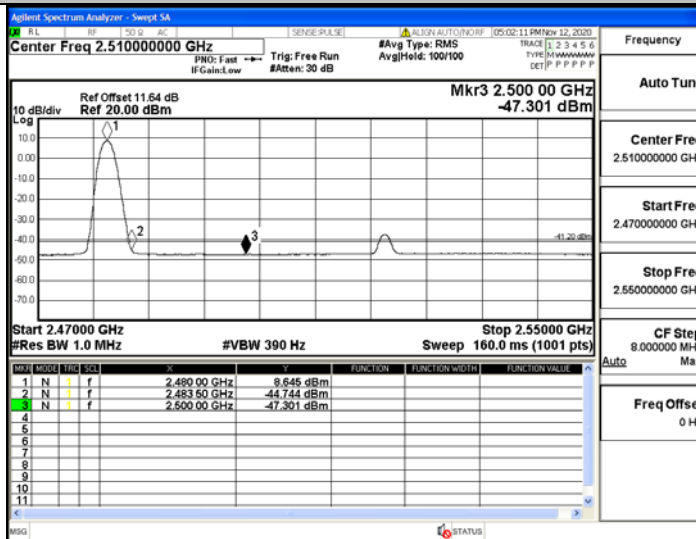
3DH5_Ant3_Low_2402_AV



3DH5_Ant3_Low_2402_Peak



3DH5_Ant3_High_2480_AV



3DH5_Ant3_High_2480_Peak

