

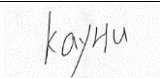
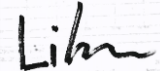


## Appendix E for BT Test Data

**Product Name:** Magnetic Bluetooth headphone amplifier

**Test Model:** Tea

### Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	



## E.1 RF Output Power

### Test Result

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH5	Ant1	Hop	8.17	20	PASS
	2DH5	Ant1	Hop	7.31	20	PASS
	3DH5	Ant1	Hop	7.09	20	PASS

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH5	Ant1	Hop	8.14	20	PASS
	2DH5	Ant1	Hop	7.14	20	PASS
	3DH5	Ant1	Hop	6.97	20	PASS

Test Condition	TestMode	Antenna	Channel	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	DH5	Ant1	Hop	7.08	20	PASS
	2DH5	Ant1	Hop	6.23	20	PASS
	3DH5	Ant1	Hop	5.98	20	PASS

\*\*\*Note: 20 bursts had been captured for power measurement.

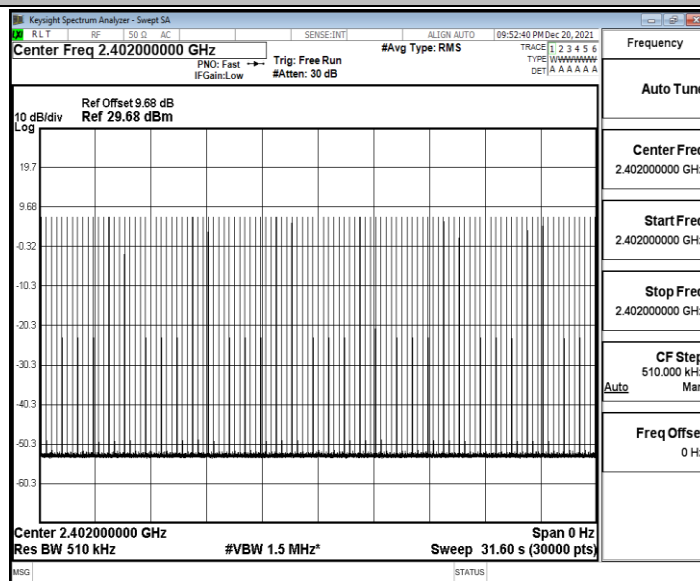


## E.2 Accumulated Transmit Time

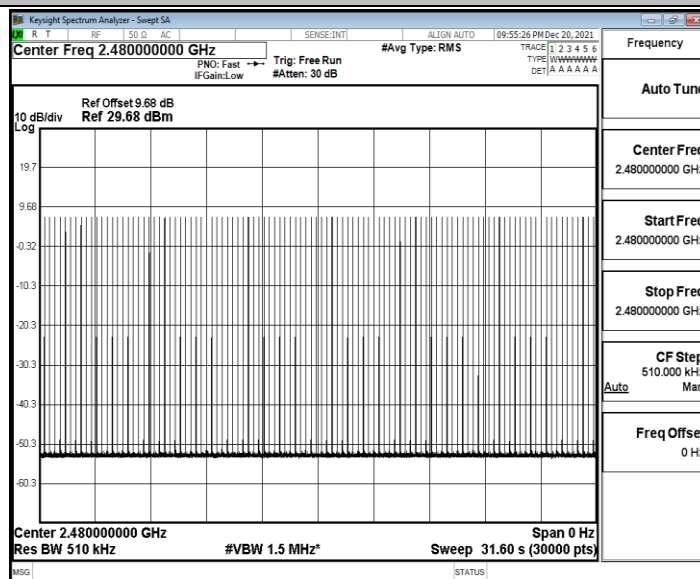
TestMode	Antenna	Channel	Result [ms]	Limit[ms]	Verdict
DH5	Ant1	Hop_2402	308.646	400	PASS
		Hop_2480	307.593	400	PASS
2DH5	Ant1	Hop_2402	309.700	400	PASS
		Hop_2480	309.700	400	PASS
3DH5	Ant1	Hop_2402	310.753	400	PASS
		Hop_2480	309.700	400	PASS

## Test Graphs

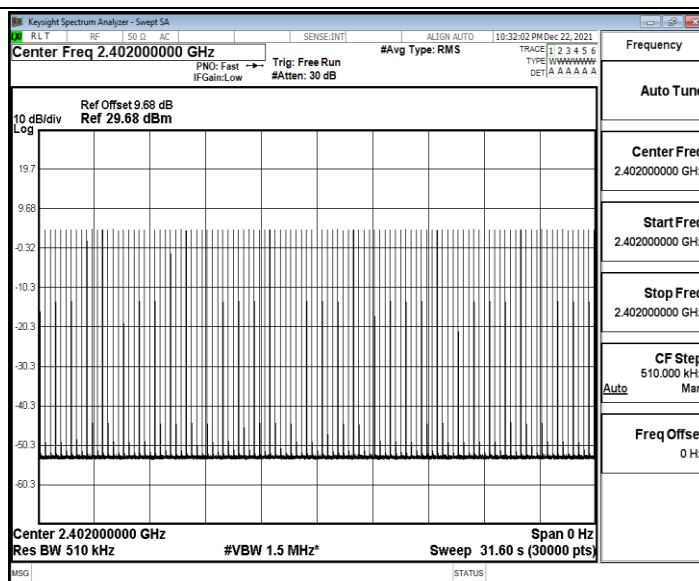
DH5\_Ant1\_Hop\_2402



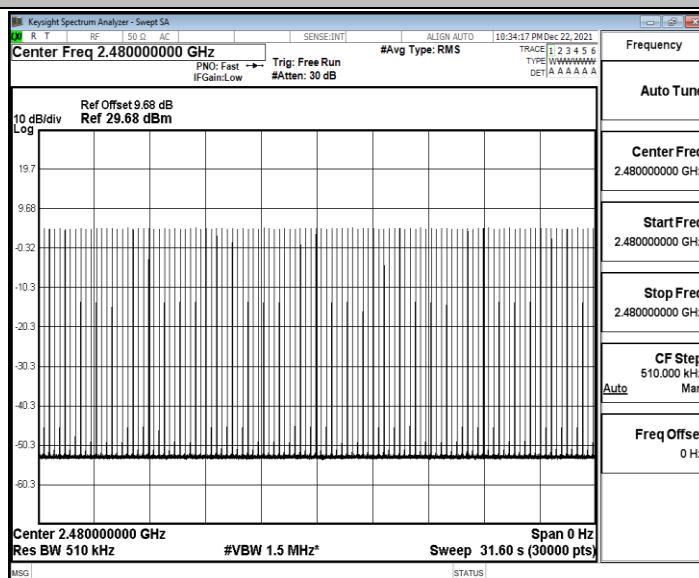
DH5\_Ant1\_Hop\_2480



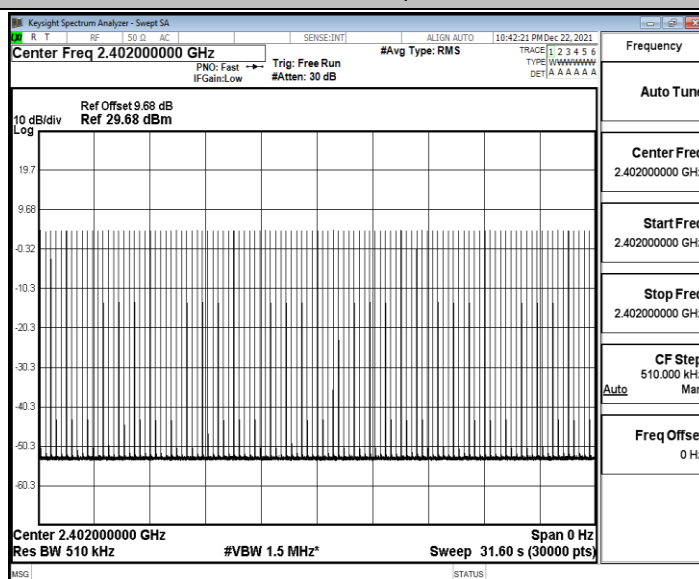
2DH5\_Ant1\_Hop\_2402



2DH5\_Ant1\_Hop\_2480

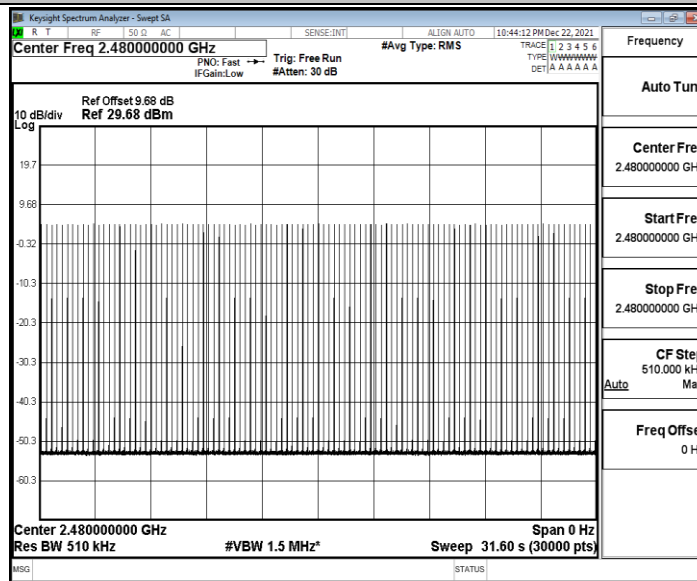


3DH5\_Ant1\_Hop\_2402





3DH5\_Ant1\_Hop\_2480

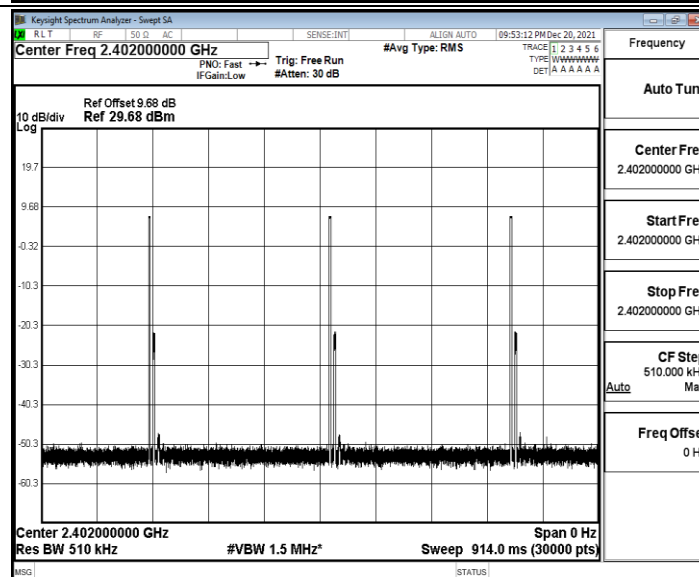
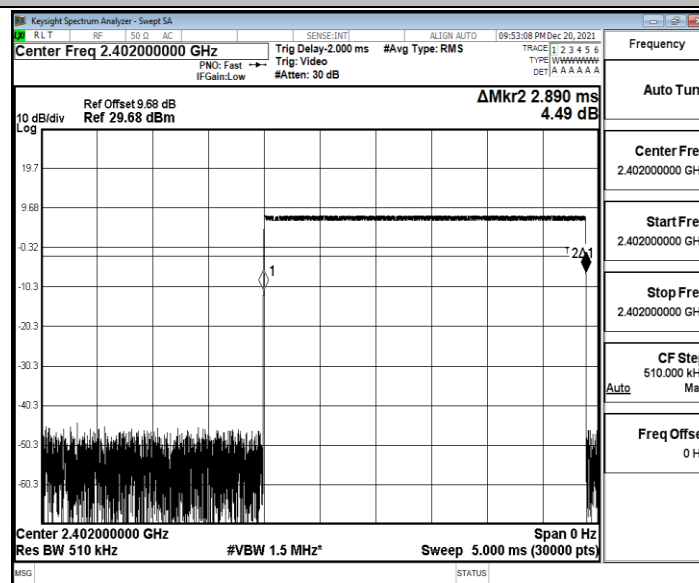




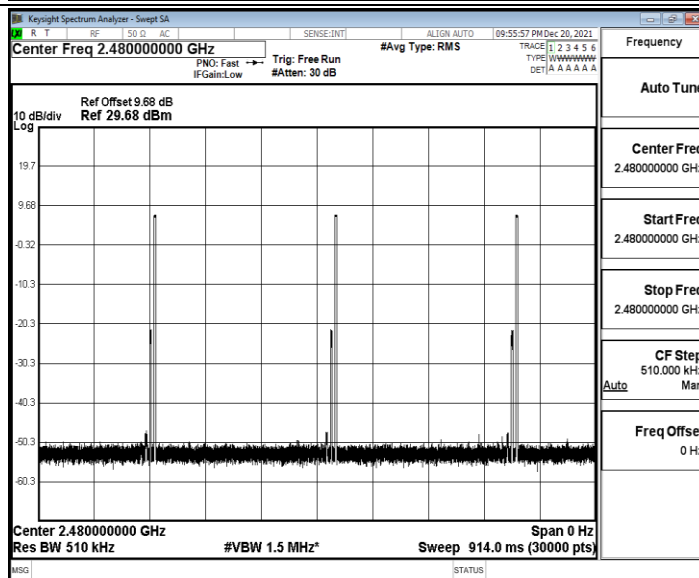
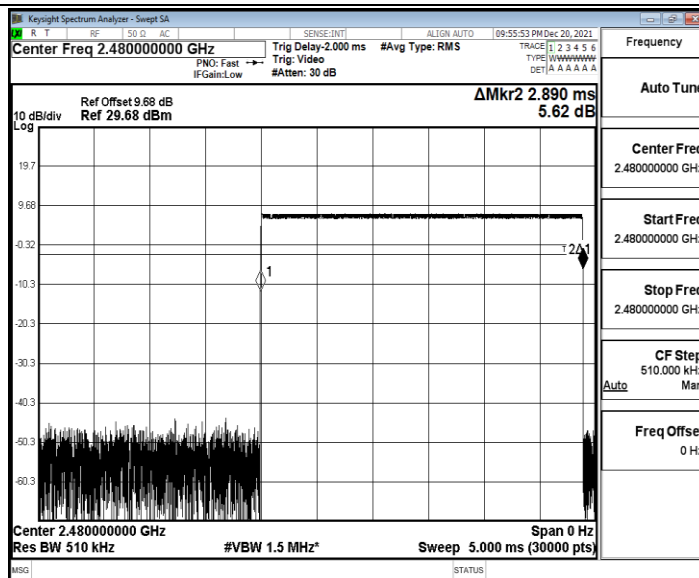
### E.3 Frequency Occupation

TestMode	Antenna	Channel	Result [Num.]	Limit [Num.]	Verdict
DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS
2DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS
3DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	3	1	PASS

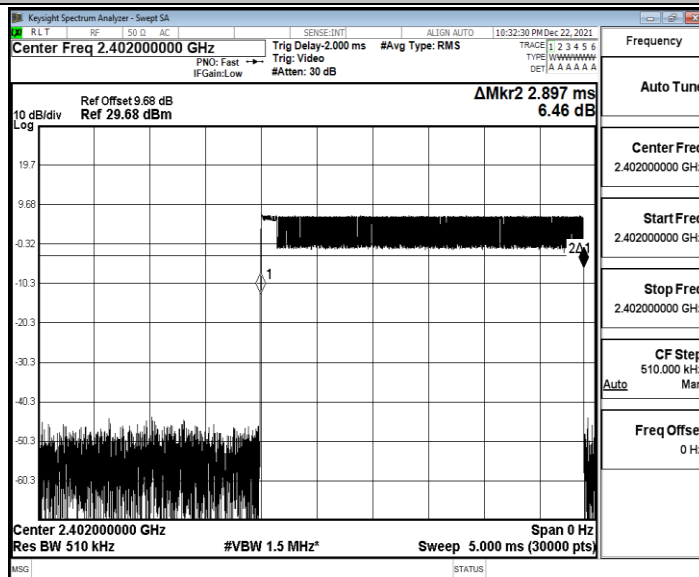
DH5\_Ant1\_Hop\_2402

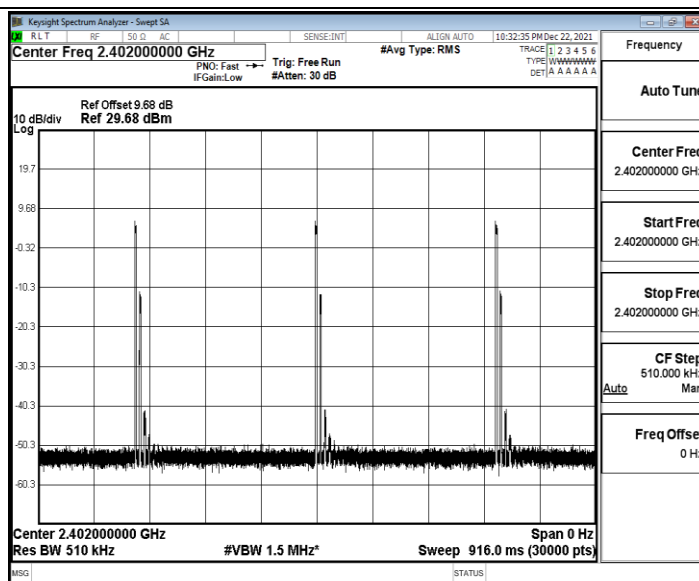


DH5\_Ant1\_Hop\_2480

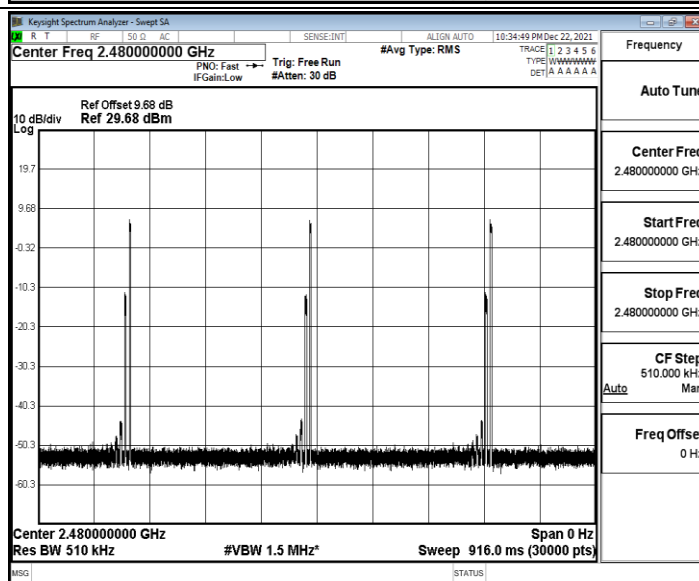
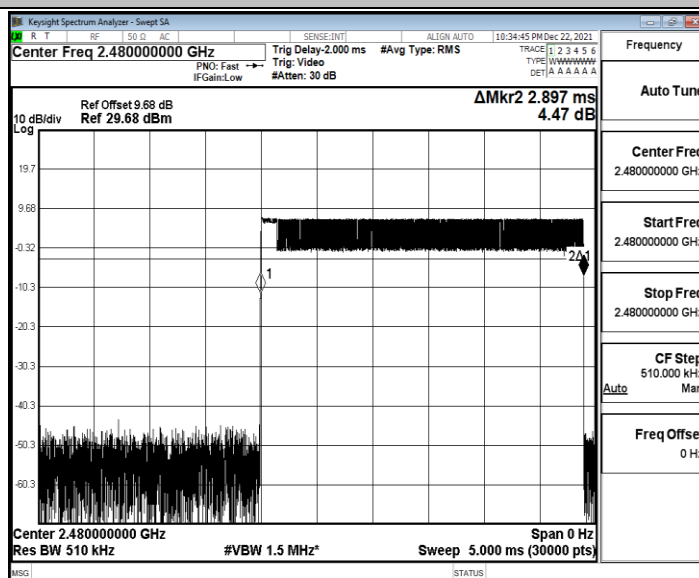


2DH5\_Ant1\_Hop\_2402

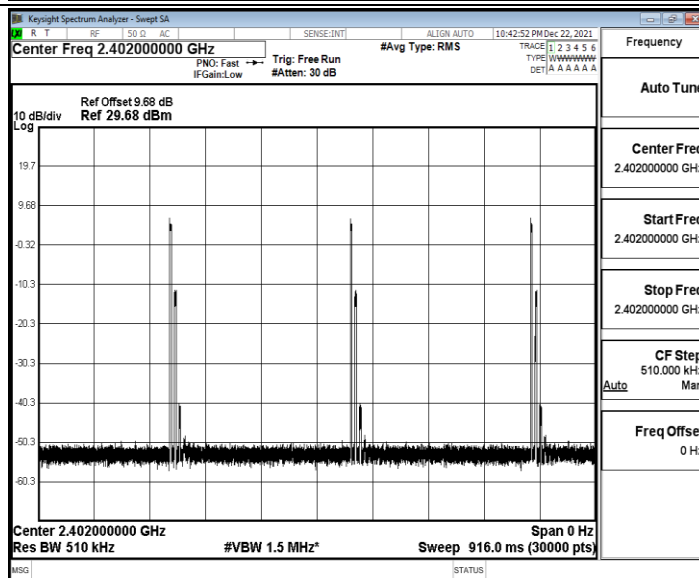
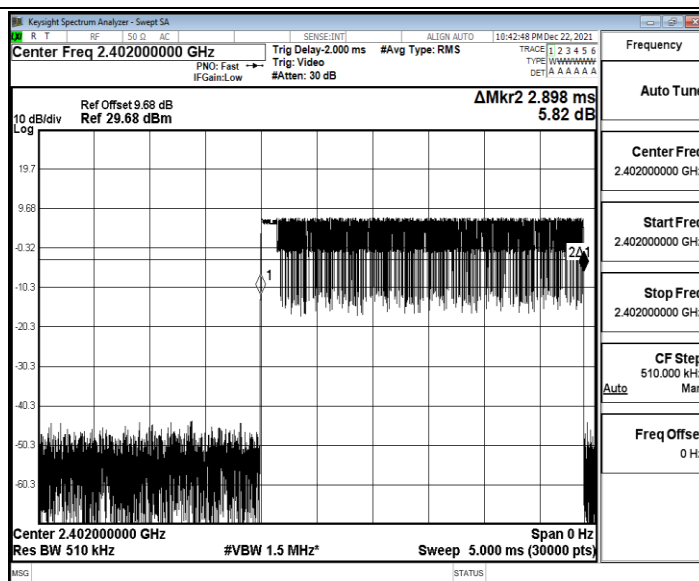




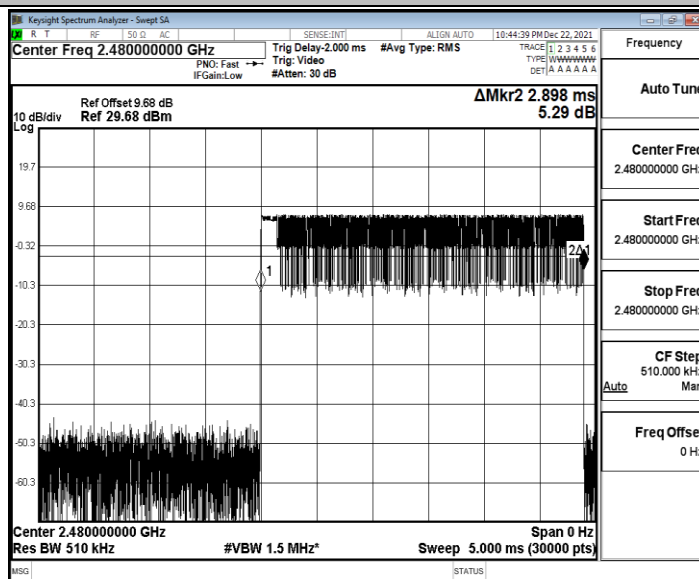
2DH5\_Ant1\_Hop\_2480

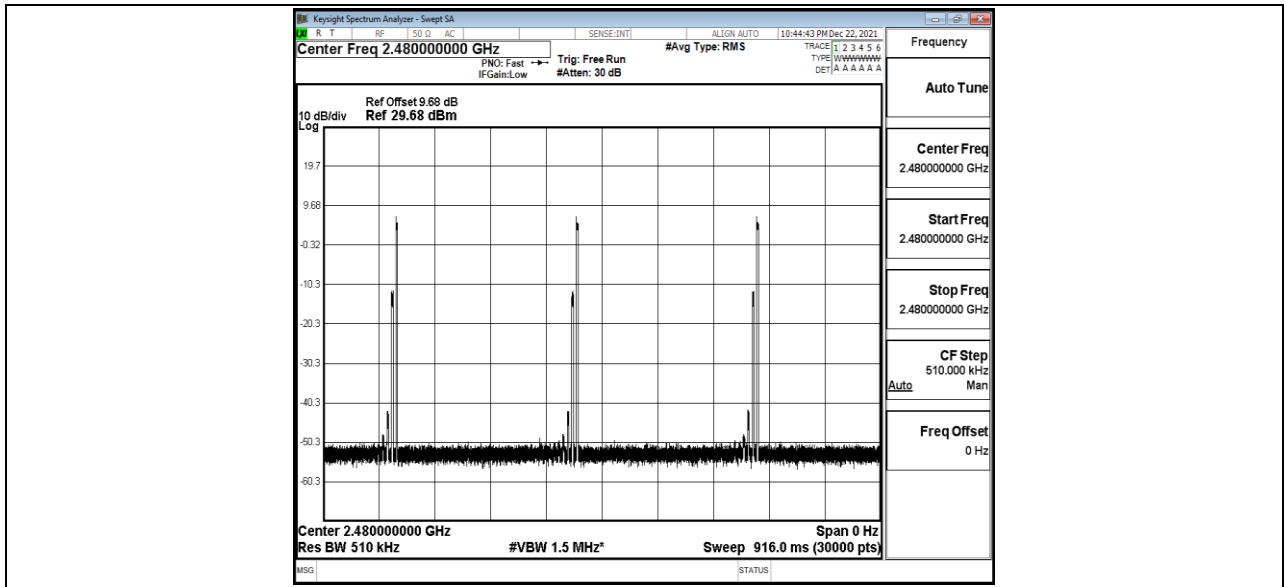


3DH5\_Ant1\_Hop\_2402



3DH5\_Ant1\_Hop\_2480



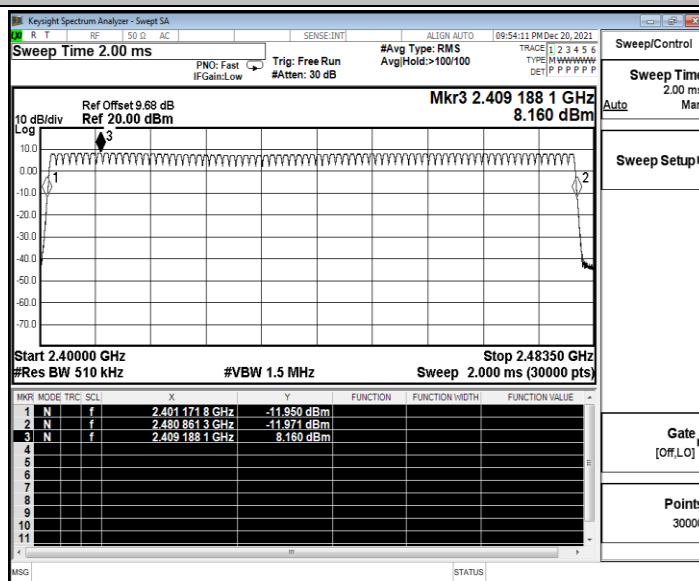




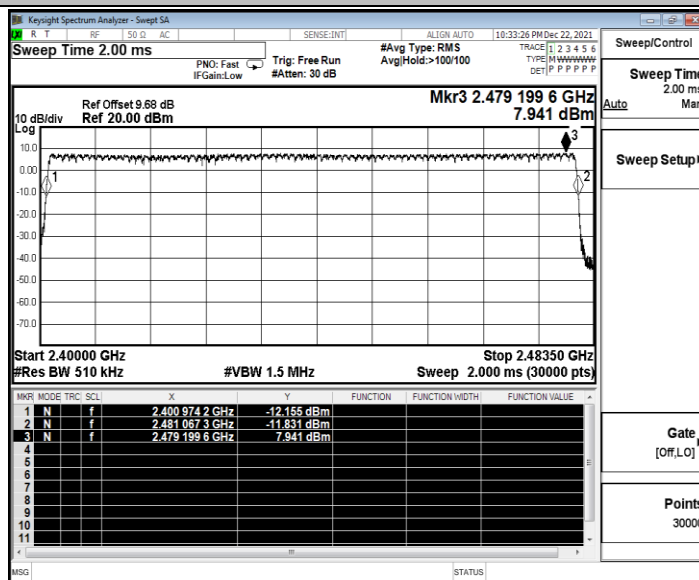
## E.4 Hopping Sequence

TestMode	Antenna	Channel	Hop. [Num.]	Limit[Num.]	Band Use [%]	Limit [%]	Verdict
DH5	Ant1	Hop_2402	79	15	95.44	70	PASS
2DH5	Ant1	Hop_2402	79	15	95.92	70	PASS
3DH5	Ant1	Hop_2402	79	15	95.98	70	PASS

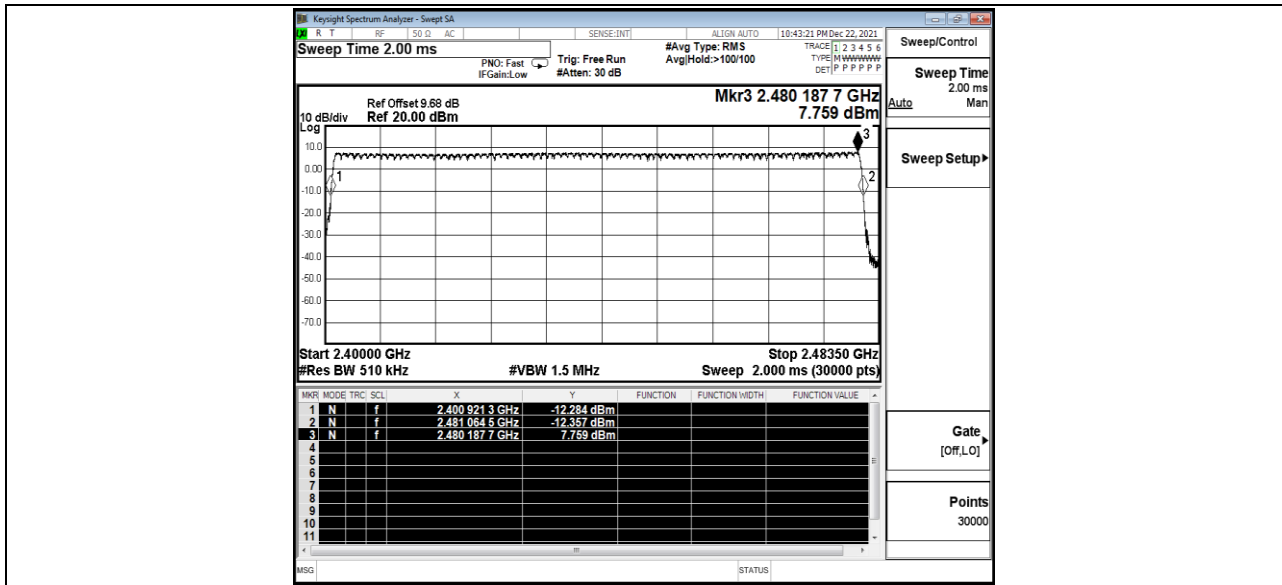
DH5\_Ant1\_Hop\_2402



2DH5\_Ant1\_Hop\_2402



3DH5\_Ant1\_Hop\_2402



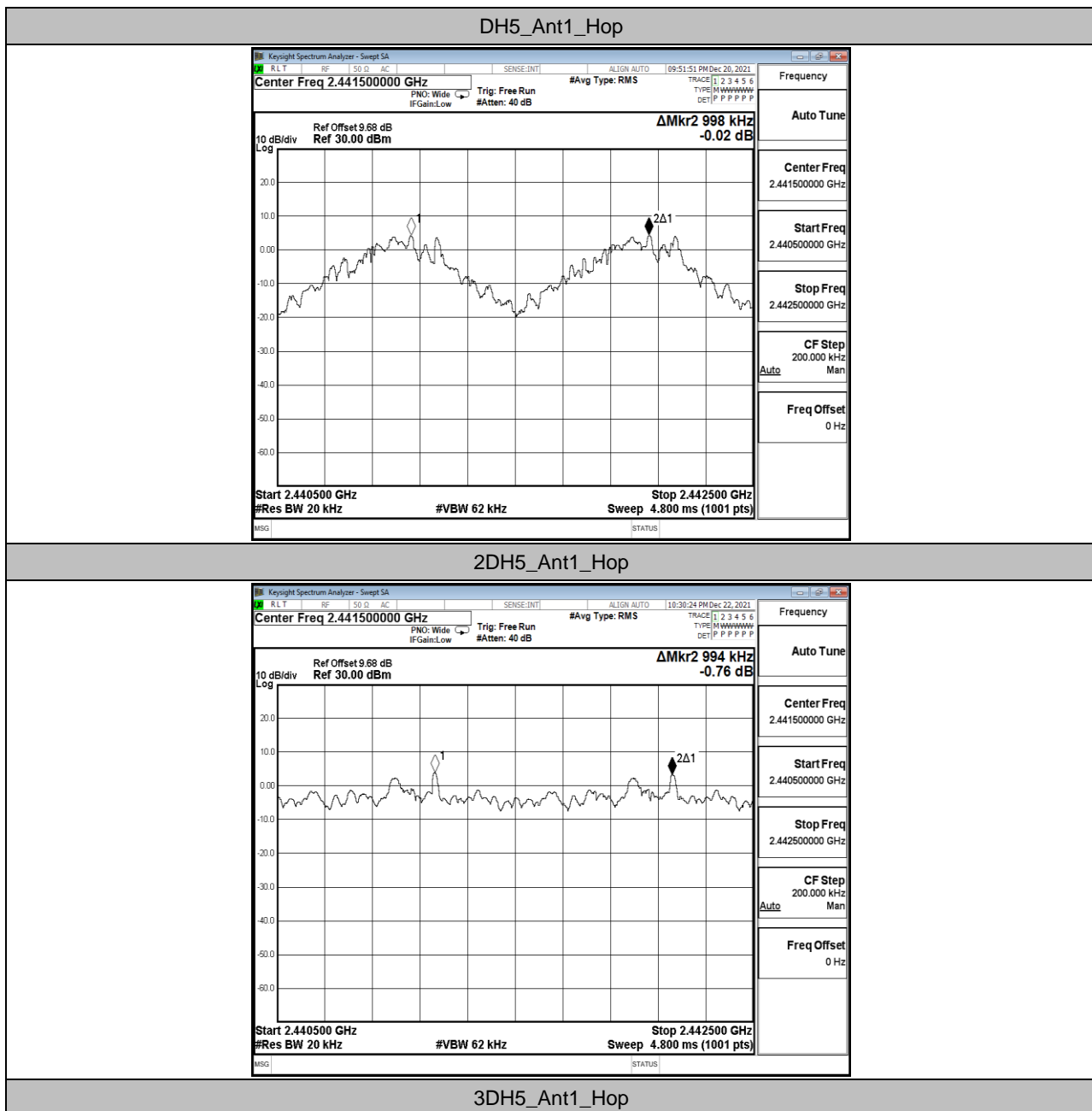


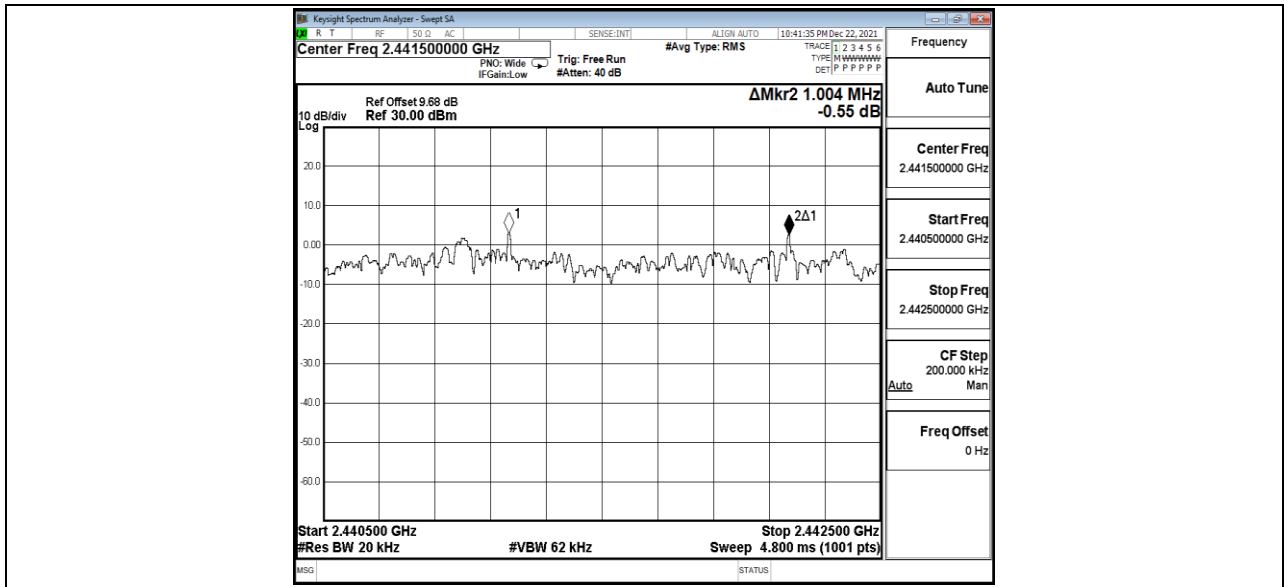
## E.5 Hopping Frequency Separation

### Test Result

TestMode	Antenna	Channel	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	0.100	PASS
2DH5	Ant1	Hop	0.994	0.100	PASS
3DH5	Ant1	Hop	1.004	0.100	PASS

### Test Graphs





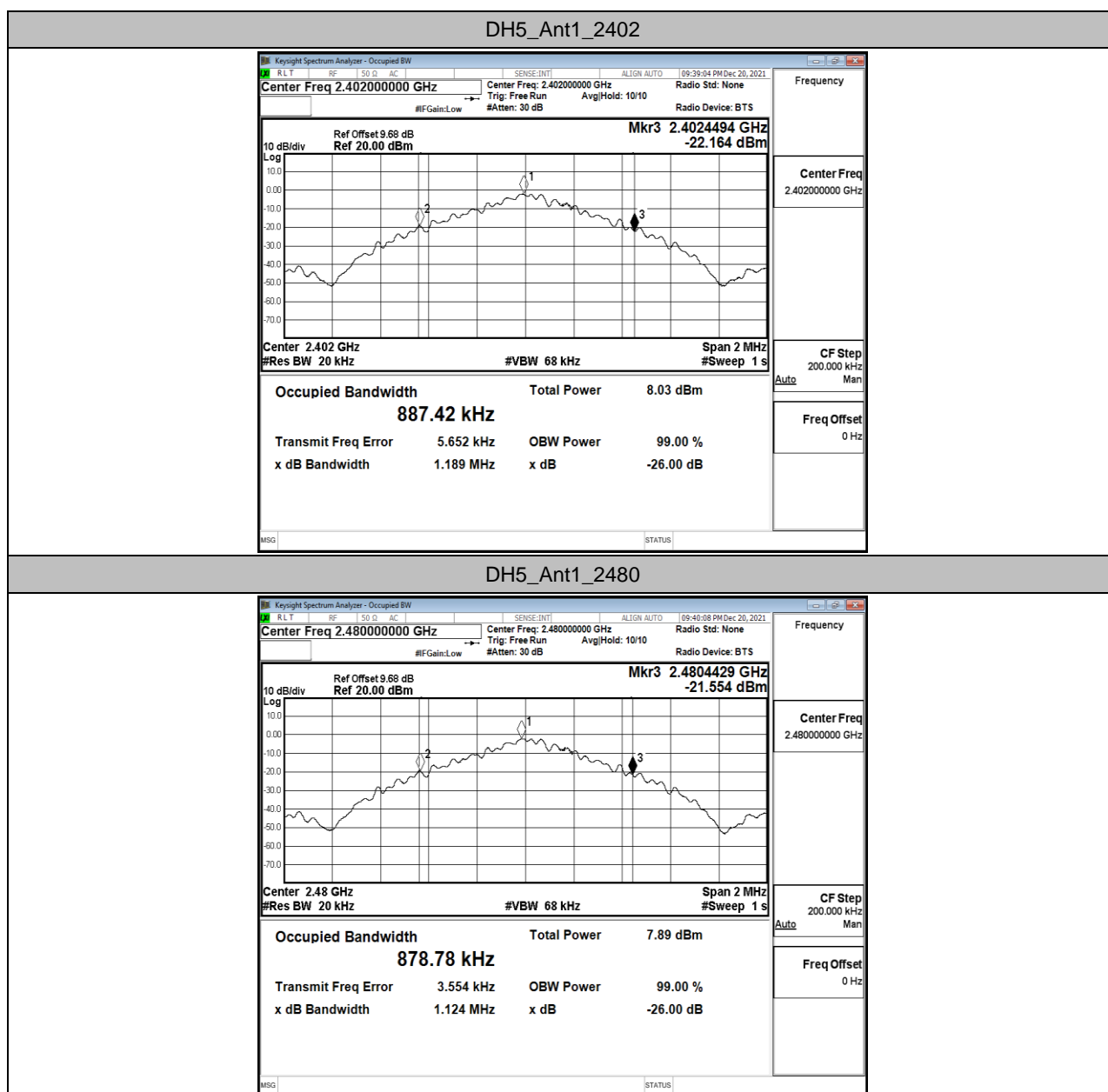


## E.6 Occupied Channel Bandwidth

### Test Result

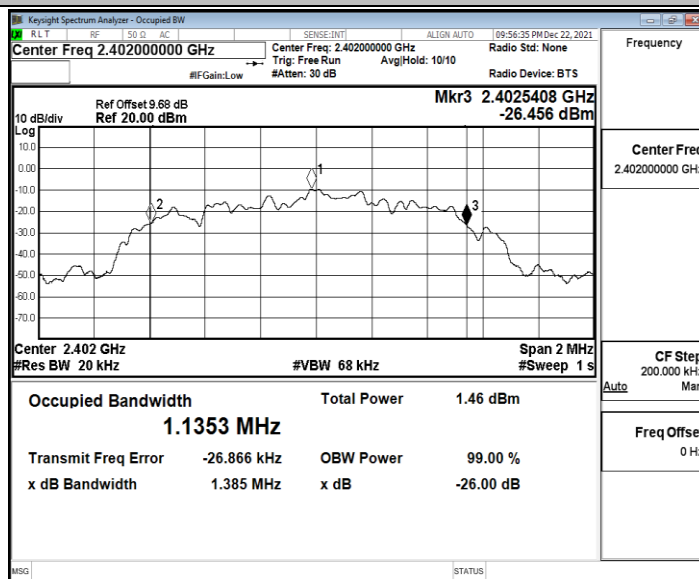
TestMode	Antenna	Channel	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88742	2401.5619	2402.4494	2400 to 2483.5	PASS
		2480	0.87878	2479.5642	2480.4429	2400 to 2483.5	PASS
2DH5	Ant1	2402	1.1353	2401.4055	2402.5408	2400 to 2483.5	PASS
		2480	1.1366	2479.4065	2480.5431	2400 to 2483.5	PASS
3DH5	Ant1	2402	1.1194	2401.4409	2402.5603	2400 to 2483.5	PASS
		2480	1.1213	2479.4410	2480.5623	2400 to 2483.5	PASS

### Test Graphs

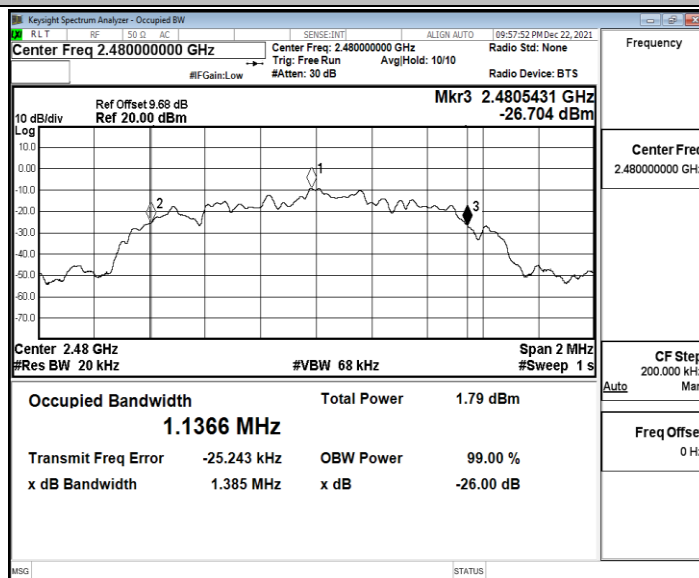




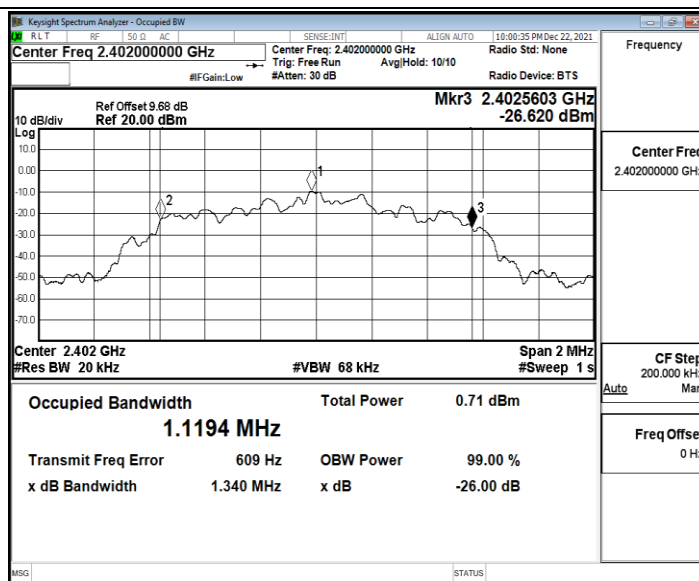
## 2DH5\_Ant1\_2402



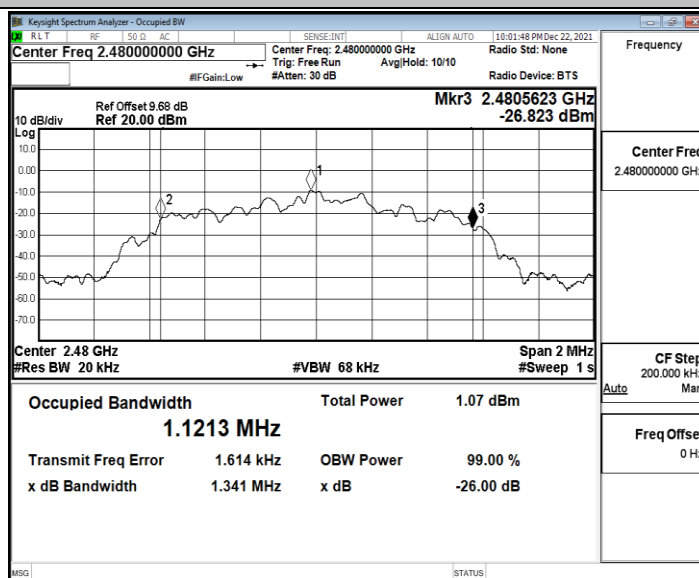
## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2480





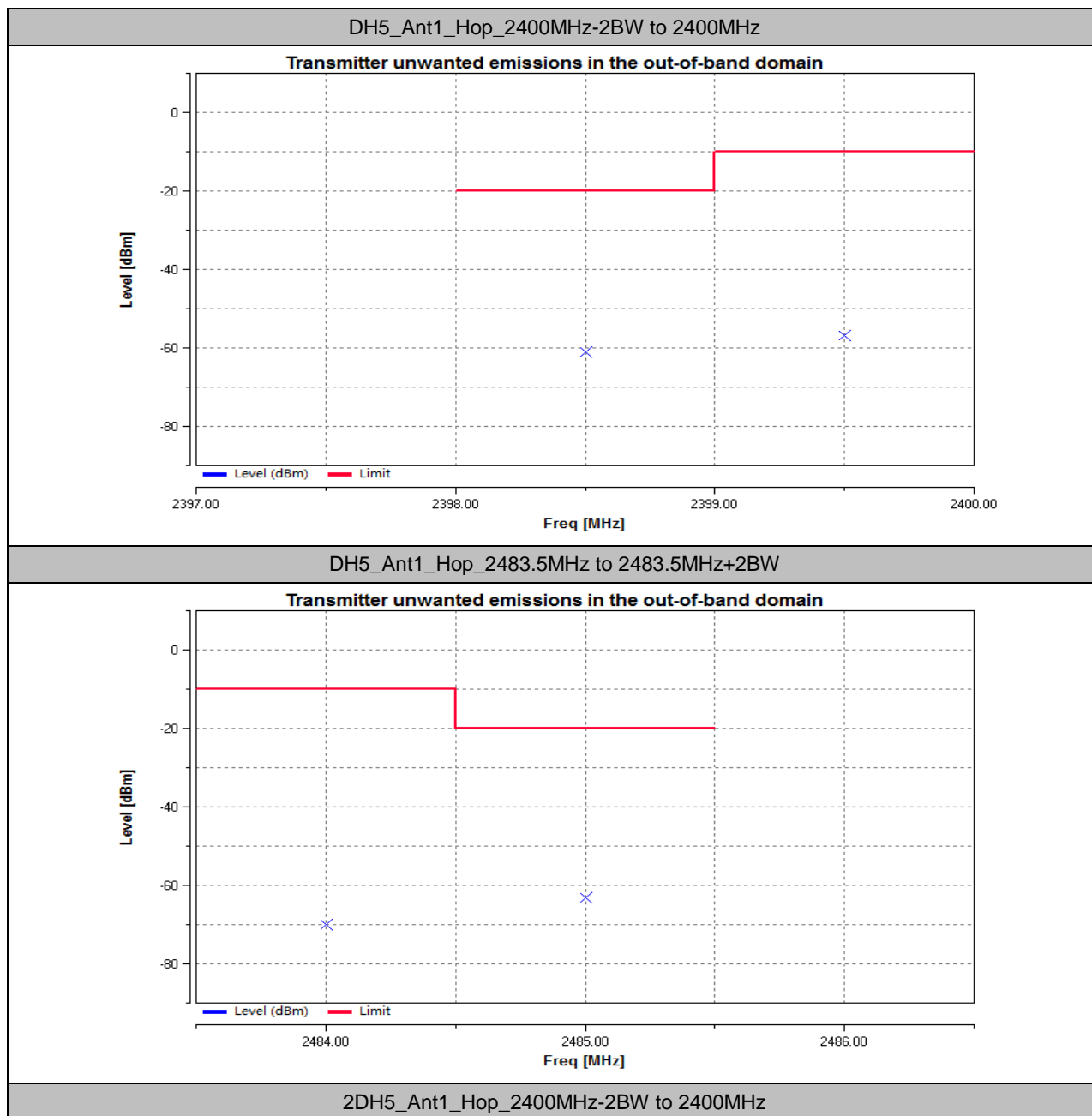
## E.7 Transmitter Unwanted Emissions In The Out-Of-BandDomain

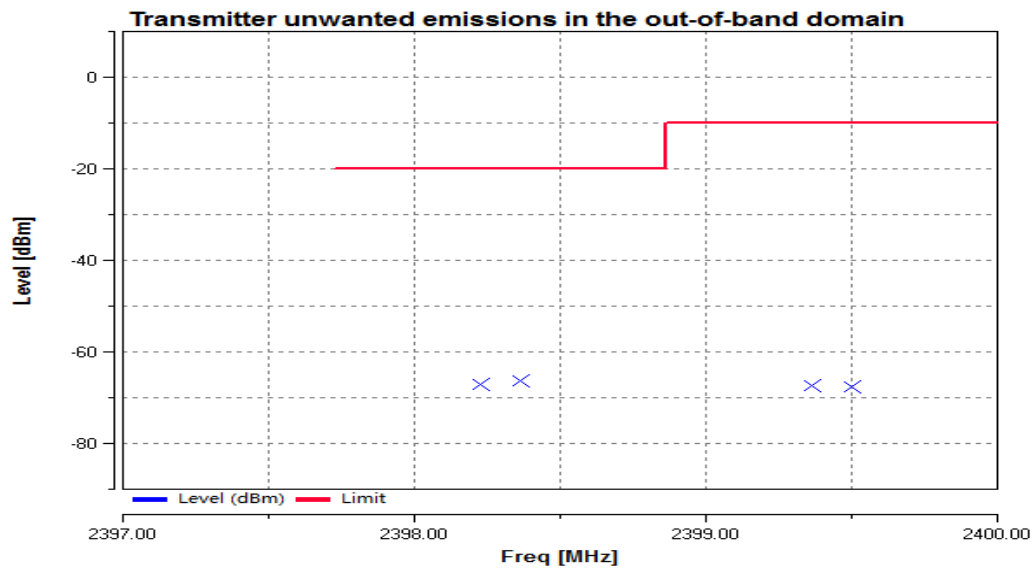
### Test Result

TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	2398.5	-60.94	-20.00	PASS
			2399.5	-56.78	-10.00	PASS
			2484	-69.93	-10.00	PASS
			2485	-63.10	-20.00	PASS
2DH5	Ant1	Hop	2398.2268	-67.09	-20.00	PASS
			2398.3634	-66.38	-20.00	PASS
			2399.3634	-67.37	-10.00	PASS
			2399.5	-67.56	-10.00	PASS
			2484	-69.84	-10.00	PASS
			2484.1366	-71.41	-10.00	PASS
			2485.1366	-67.11	-20.00	PASS
			2485.2732	-63.87	-20.00	PASS
3DH5	Ant1	Hop	2398.2574	-70.69	-20.00	PASS
			2398.3787	-71.27	-20.00	PASS
			2399.3787	-66.64	-10.00	PASS
			2399.5	-66.54	-10.00	PASS
			2484	-54.49	-10.00	PASS
			2484.1213	-66.33	-10.00	PASS
			2485.1213	-62.77	-20.00	PASS
			2485.2426	-66.94	-20.00	PASS

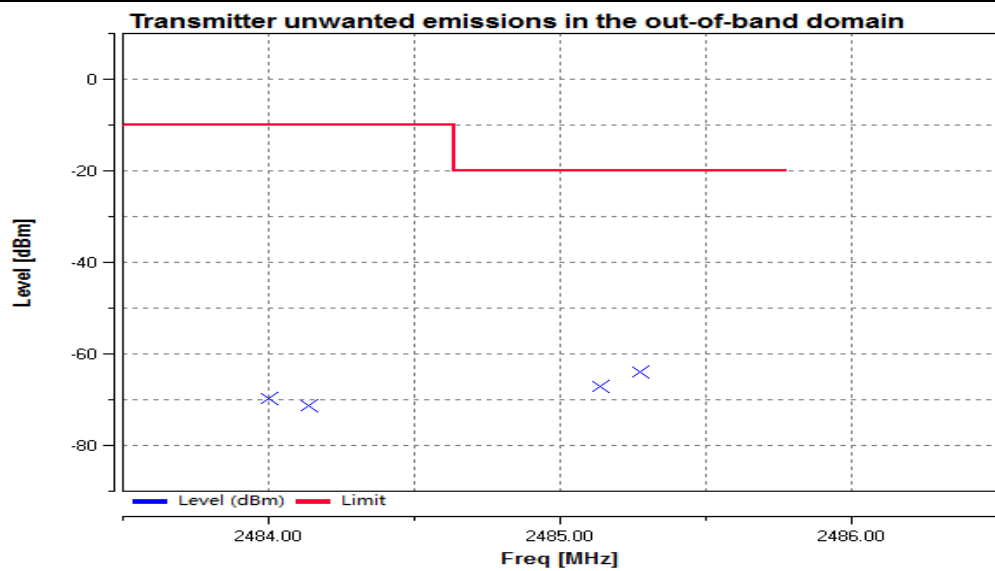


## Test Graphs

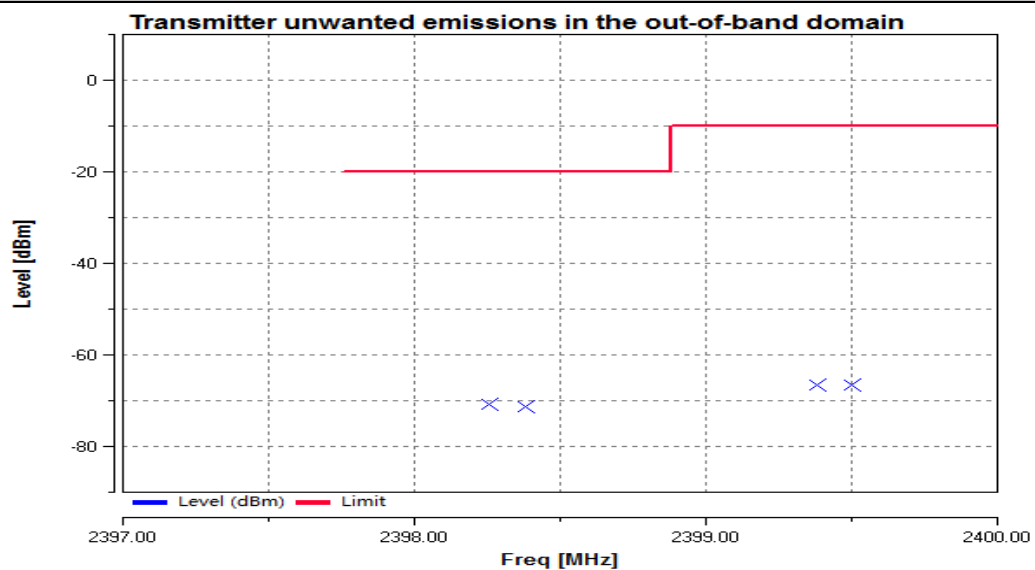


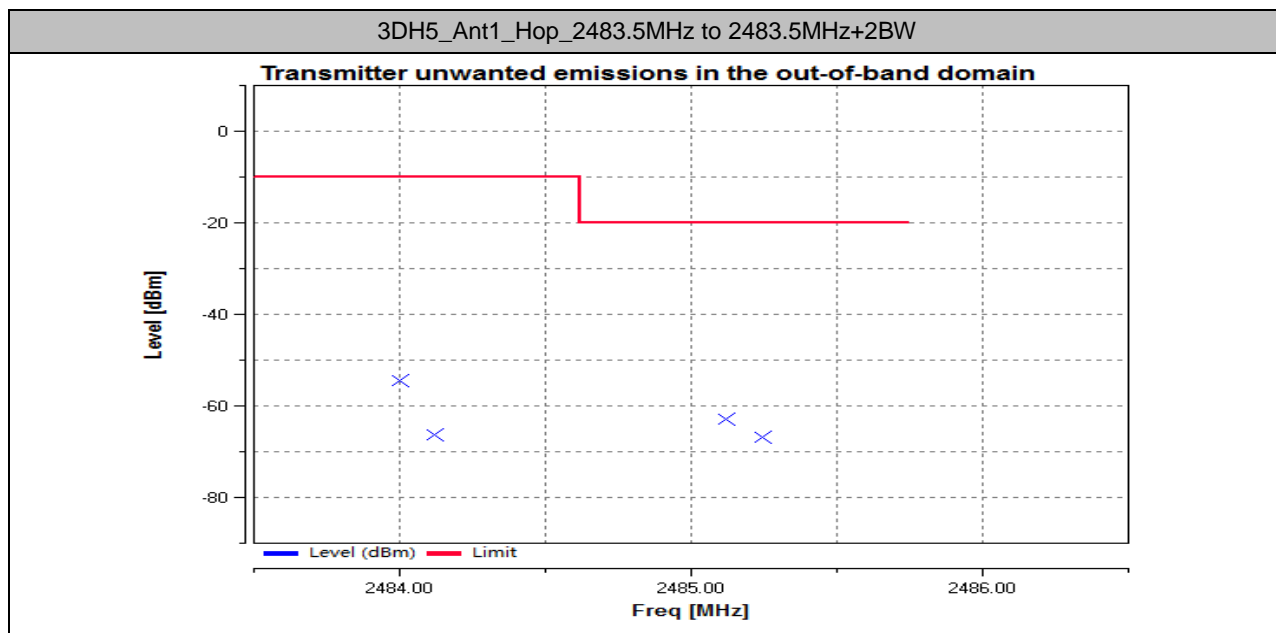


2DH5\_Ant1\_Hop\_2483.5MHz to 2483.5MHz+2BW



3DH5\_Ant1\_Hop\_2400MHz-2BW to 2400MHz





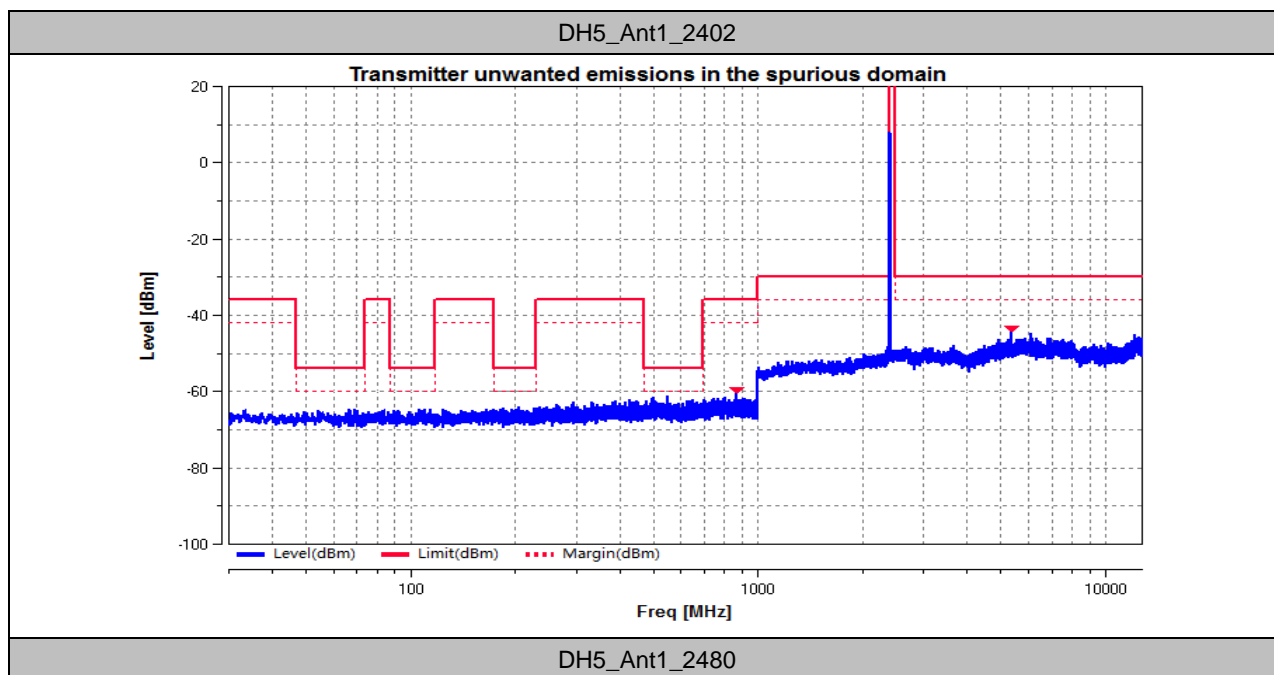


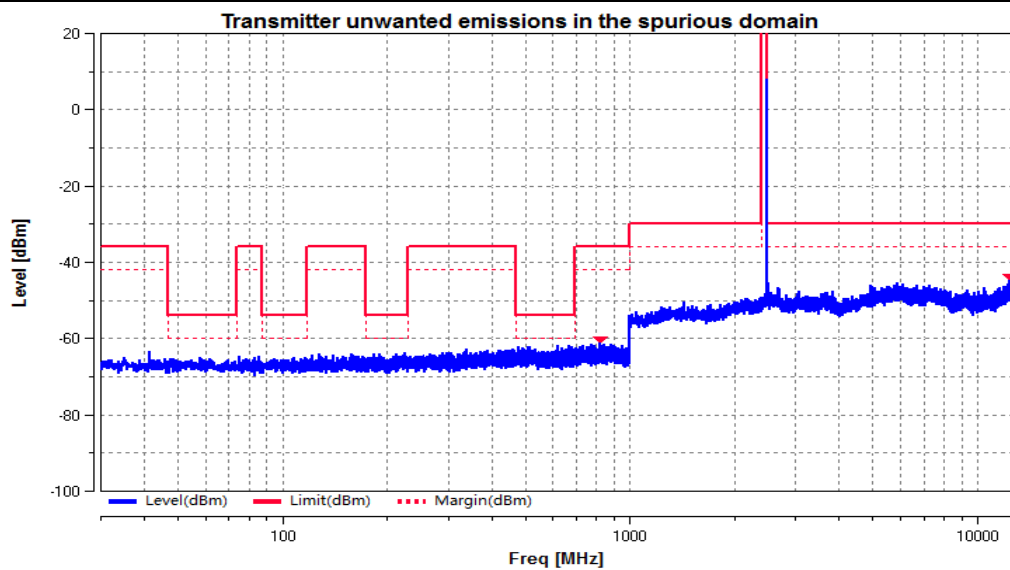
## E.8 Transmitter unwanted emissions in the spurious domain

### Test Result-Pre-scan

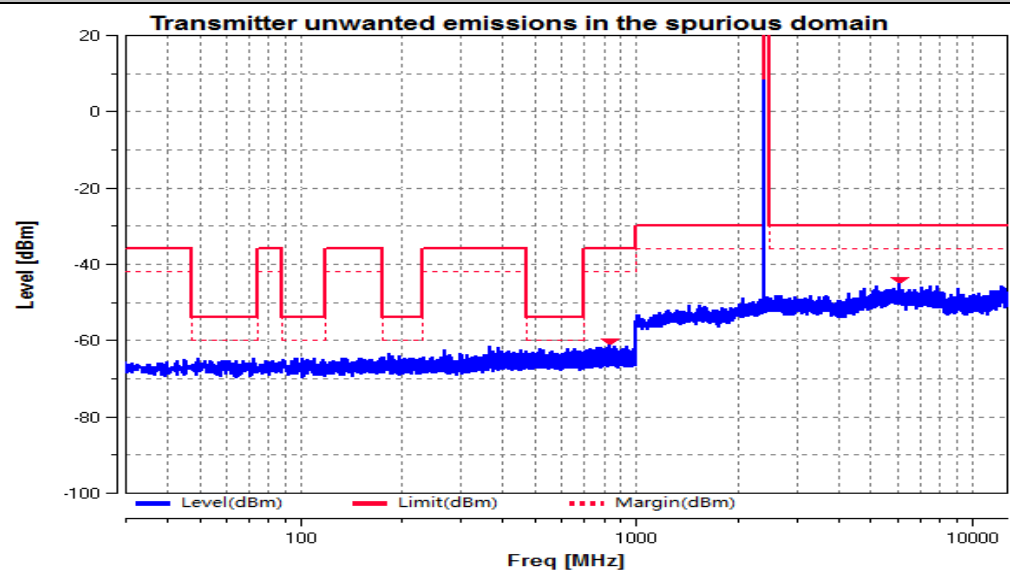
TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	870.75	-60.39	-36	PASS
			5369.53	-44.29	-30	PASS
		2480	821.52	-61.1	-36	PASS
			12435.69	-44.59	-30	PASS
2DH5	Ant1	2402	830.01	-61.29	-36	PASS
			6086.28	-45.04	-30	PASS
		2480	842.86	-61.19	-36	PASS
			12362.25	-44.82	-30	PASS
3DH5	Ant1	2402	872.45	-61.12	-36	PASS
			2396.78	-42.9	-30	PASS
		2480	906.64	-61.47	-36	PASS
			7619.66	-45.46	-30	PASS

### Test Graphs-Pre-scan

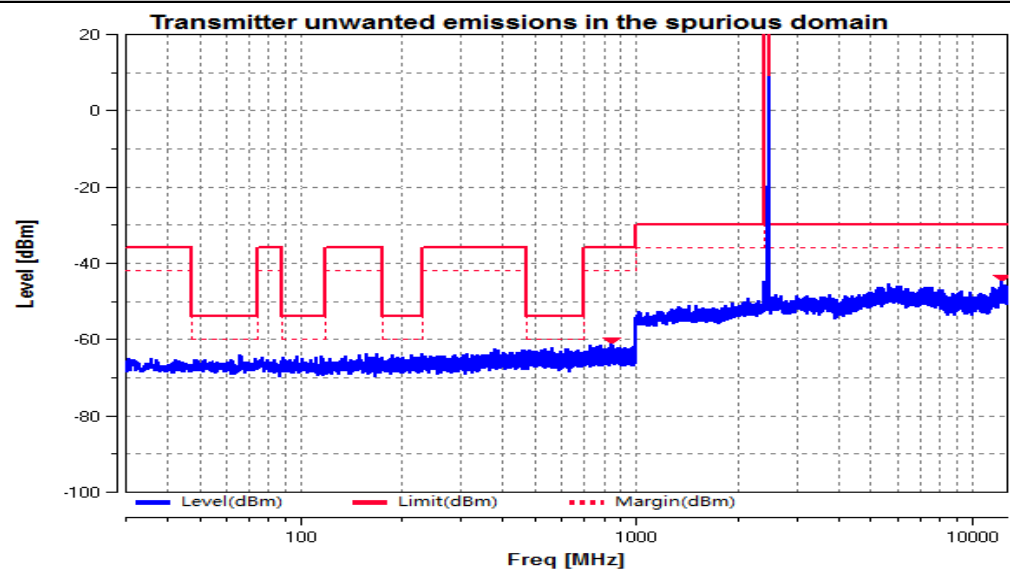




2DH5\_Ant1\_2402

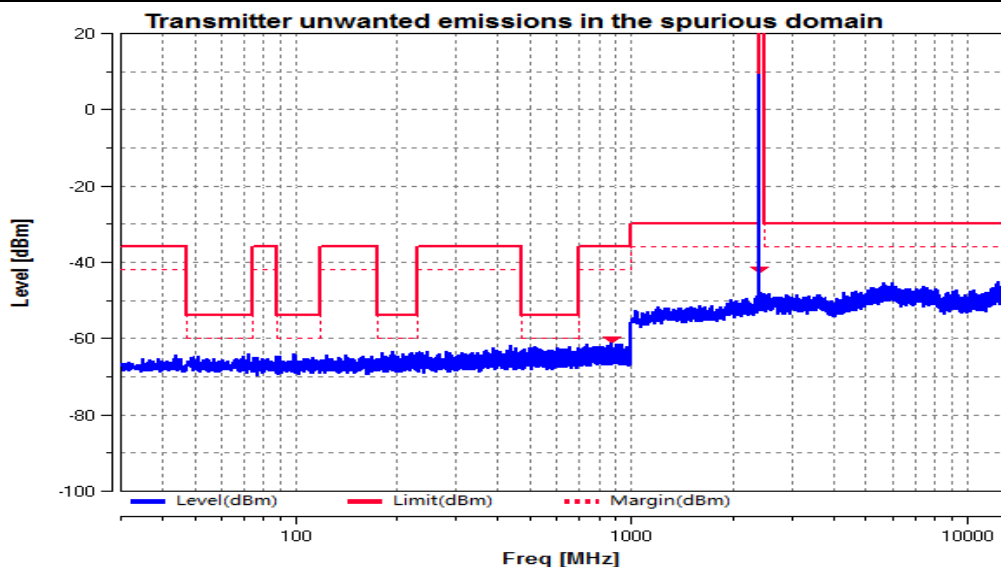


2DH5\_Ant1\_2480

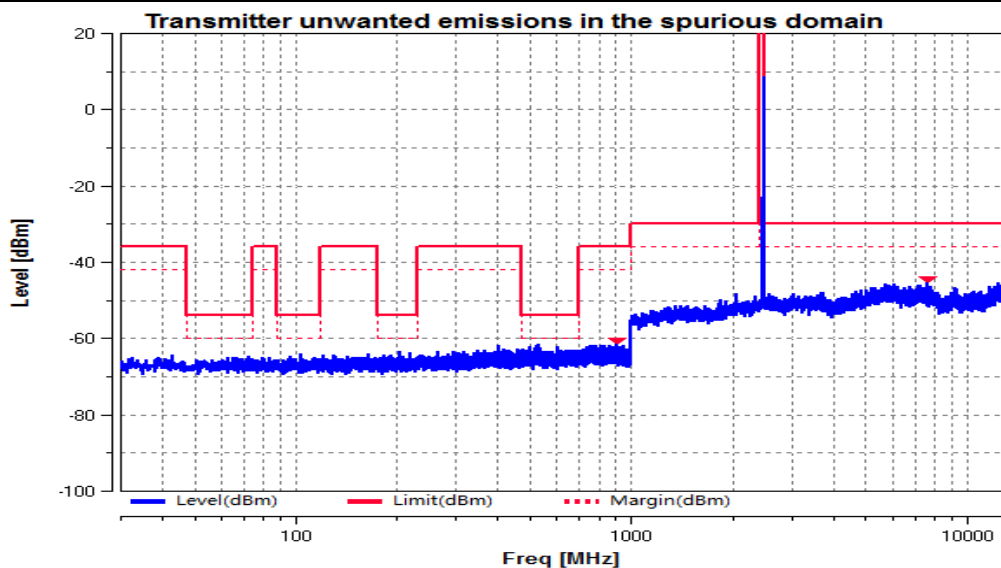




3DH5\_Ant1\_2402



3DH5\_Ant1\_2480





## E.9 Receiver spurious emissions

### Test Result-Pre-scan

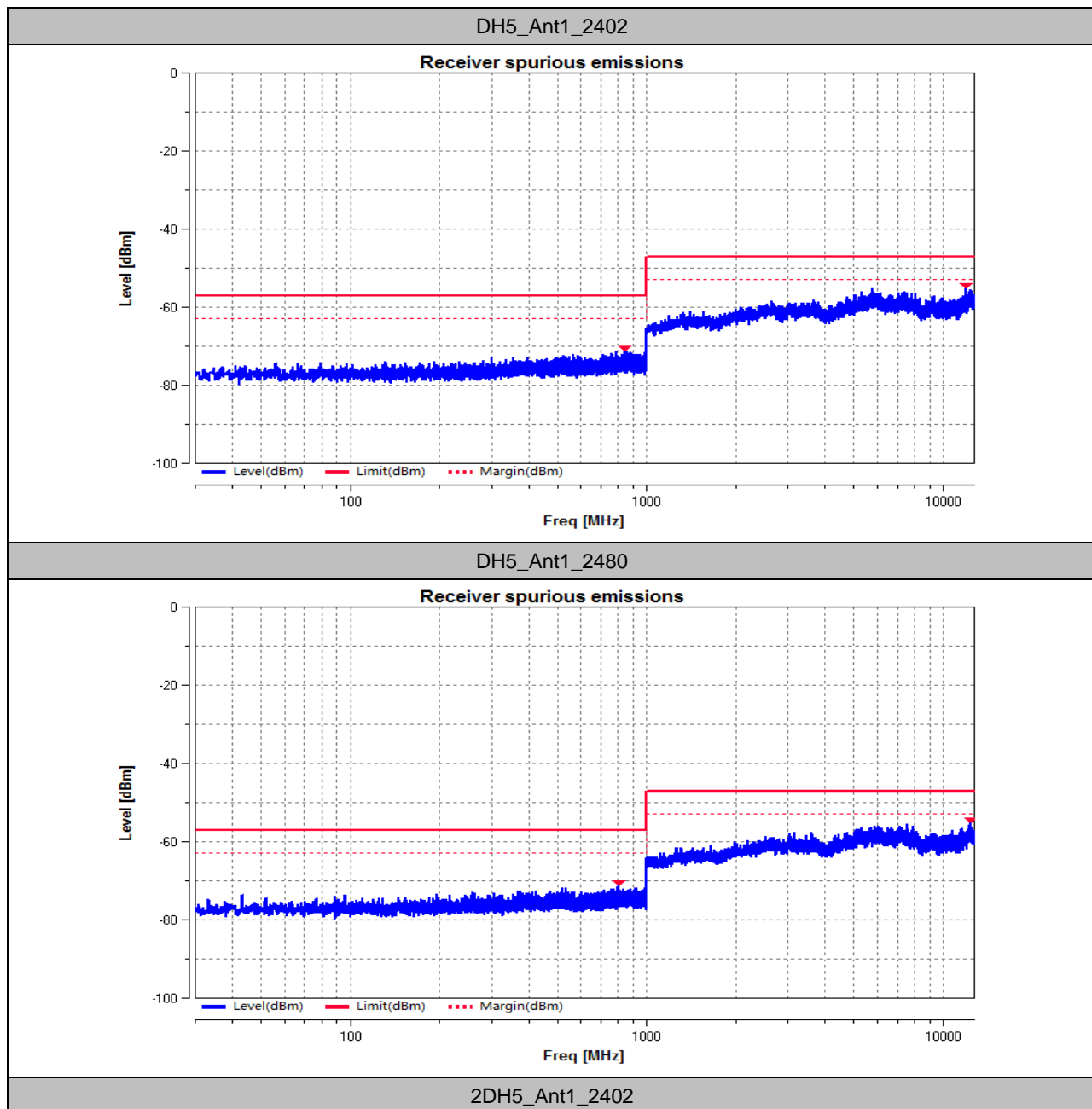
TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	845.29	-71.29	-57.00	PASS
			11896.66	-55.2	-47.00	PASS
		2480	806.73	-71.32	-57.00	PASS
			12381.34	-55.38	-47.00	PASS
2DH5	Ant1	2402	698.45	-71.63	-57.00	PASS
			5770.5	-53.62	-47.00	PASS
		2480	684.14	-70.41	-57.00	PASS
			5763.16	-54.18	-47.00	PASS
3DH5	Ant1	2402	905.06	-70.9	-57.00	PASS
			6086.28	-54.42	-47.00	PASS
		2480	5757.28	-52.99	-47	See table below

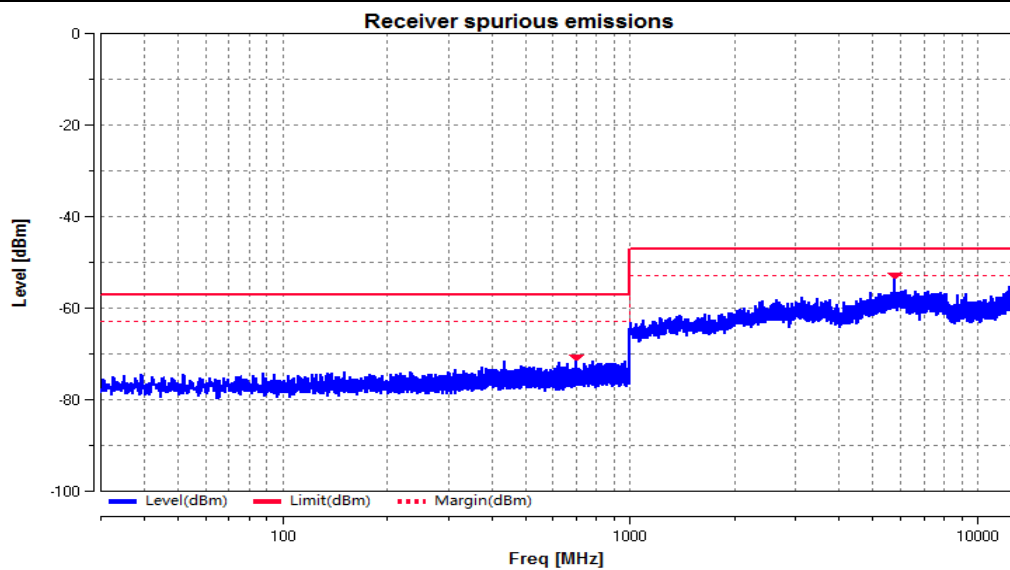
### Test Result- Emissions identified during the pre-scan

TestMode	Antenna	Channel	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
3DH5	Ant1	2480	5757.28	-75.80	-47	PASS

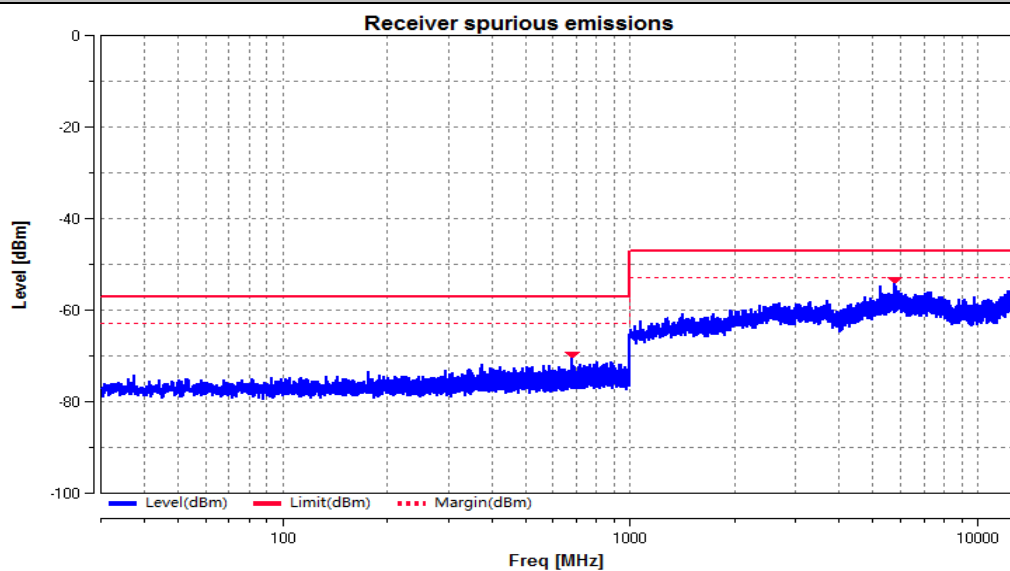


## Test Graphs-Pre-scan

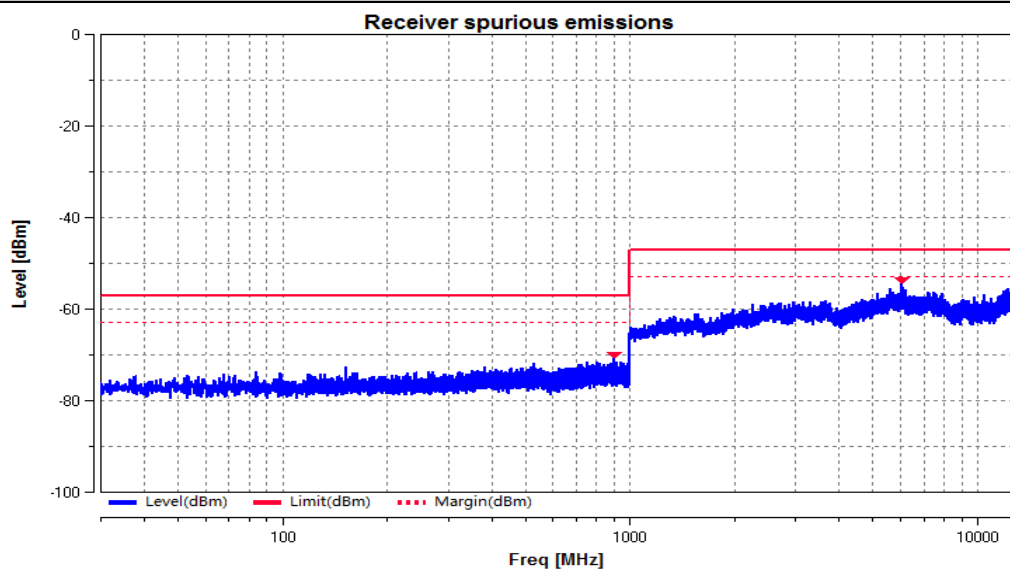


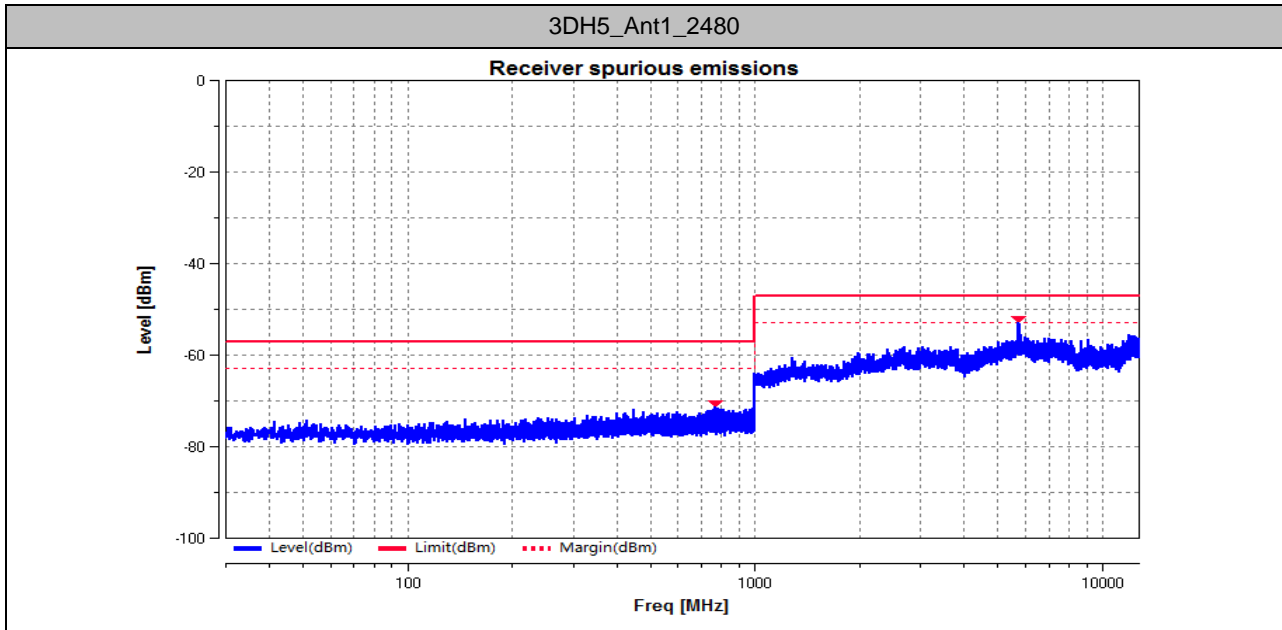


2DH5\_Ant1\_2480

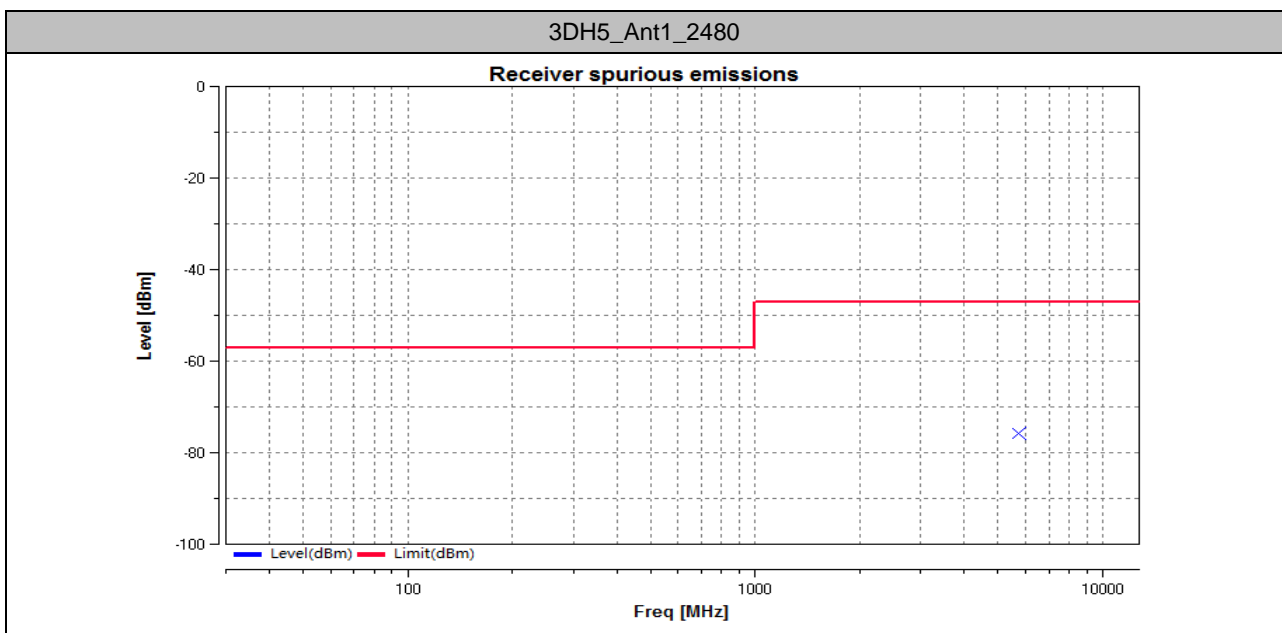


3DH5\_Ant1\_2402





### Test Graphs- Emissions identified during the pre-scan





## E.10 Receiver Blocking

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
DH1	2402	-70	2380	-25	$\geq -34$	CW	3.22	10	Pass
			2504	-34	$\geq -34$	CW	4.48	10	Pass
			2300	-23	$\geq -34$	CW	5.37	10	Pass
			2584	-25	$\geq -34$	CW	4.58	10	Pass
	2480	-70	2380	-25	$\geq -34$	CW	6.76	10	Pass
			2504	-24	$\geq -34$	CW	5.98	10	Pass
			2300	-29	$\geq -34$	CW	5.30	10	Pass
			2584	-23	$\geq -34$	CW	3.71	10	Pass
2DH1	2402	-68	2380	-20	$\geq -34$	CW	5.06	10	Pass
			2504	-27	$\geq -34$	CW	5.81	10	Pass
			2300	-17	$\geq -34$	CW	4.40	10	Pass
			2584	-25	$\geq -34$	CW	4.48	10	Pass
	2480	-68	2380	-29	$\geq -34$	CW	6.71	10	Pass
			2504	-31	$\geq -34$	CW	5.70	10	Pass
			2300	-31	$\geq -34$	CW	6.56	10	Pass
			2584	-21	$\geq -34$	CW	3.35	10	Pass
3DH1	2402	-68	2380	-25	$\geq -34$	CW	5.90	10	Pass
			2504	-32	$\geq -34$	CW	5.07	10	Pass
			2300	-23	$\geq -34$	CW	6.88	10	Pass
			2584	-26	$\geq -34$	CW	6.22	10	Pass
	2480	-68	2380	-26	$\geq -34$	CW	3.47	10	Pass
			2504	-23	$\geq -34$	CW	5.51	10	Pass
			2300	-29	$\geq -34$	CW	5.38	10	Pass
			2584	-22	$\geq -34$	CW	3.83	10	Pass