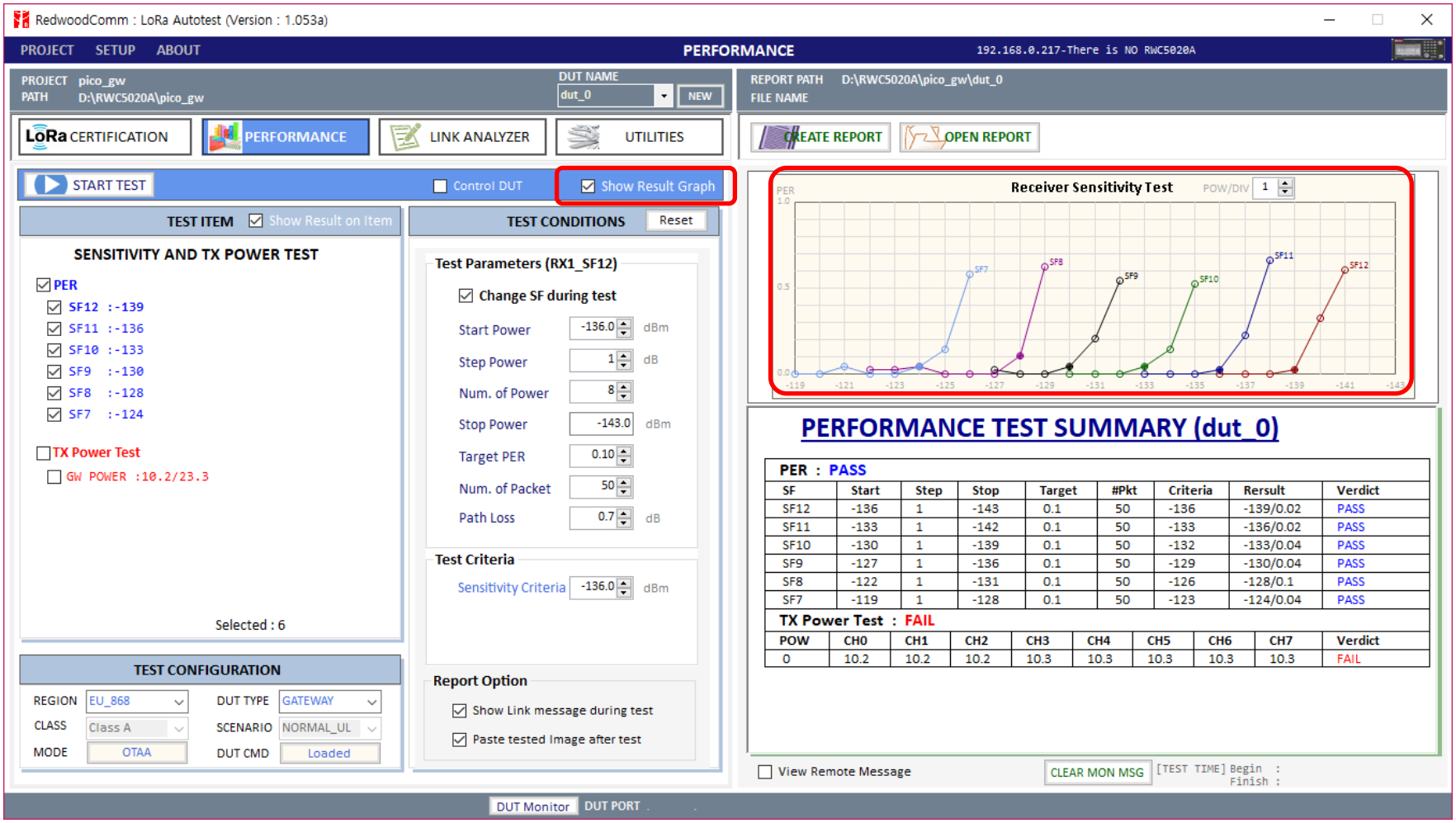
Minimum sensitivity test using RWC5020A and application program

RedwoodComm

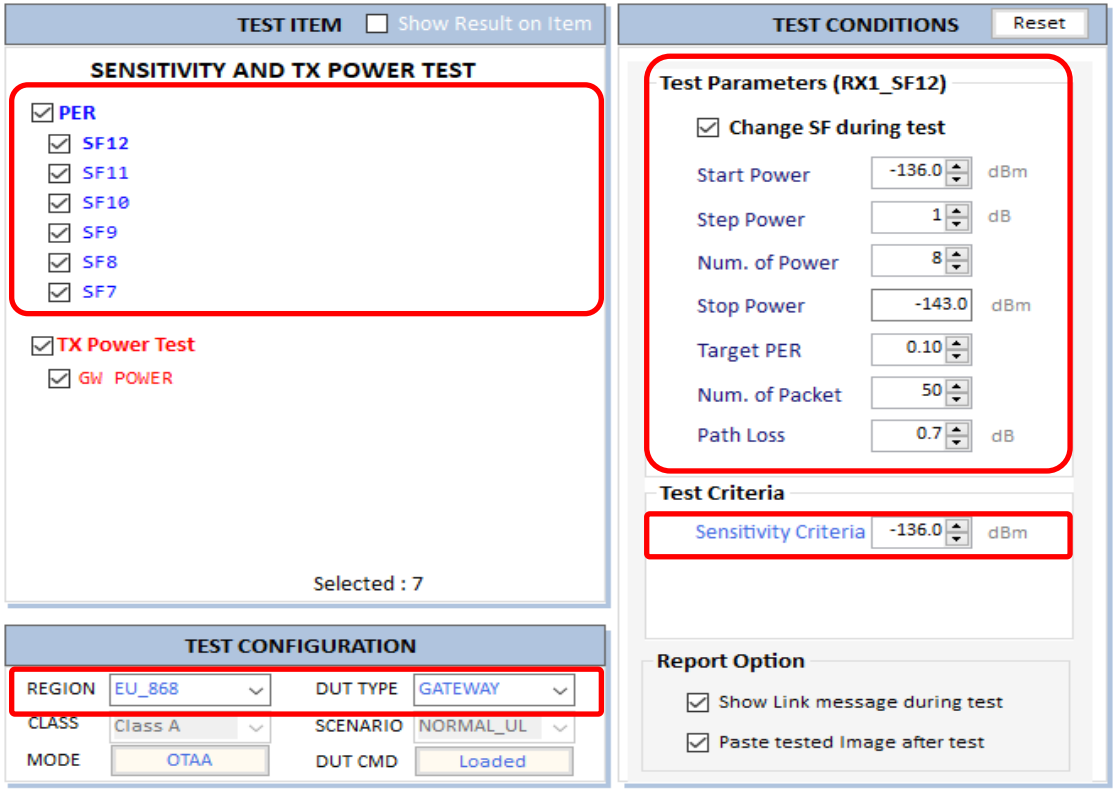
Sensitivity Test Using Application Program

Clicking START TEST makes RWC5020A measure PER at each power user set and search the minimum sensitivity power under the test conditions.
In order to see the PER chart while you test, check Show Result Graph

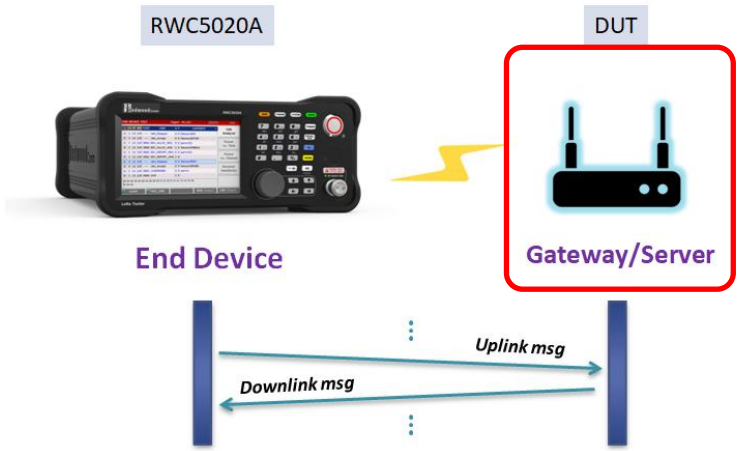


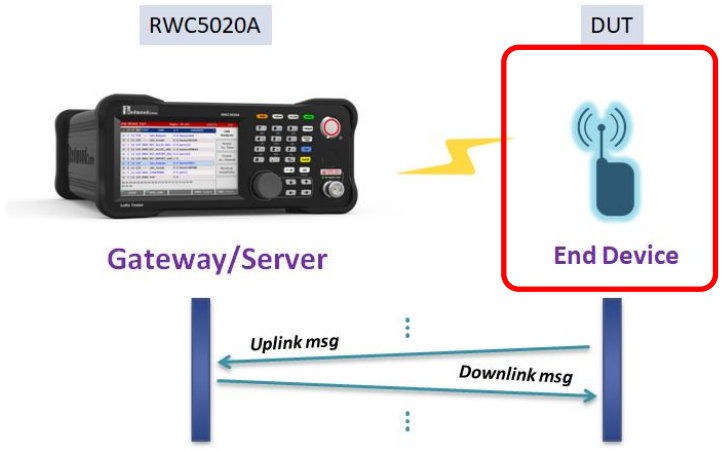
Test parameters

SF : Select items you want to test and set the test parameters and criteria for each SF(Spreading Factor)
Sensitivity Criteria : Means the measured sensitivity power which has the PER that is not over the target PER should be greater than the criteria power. It could be a user defined criteria.
Device Type : User must select device type(GATEWAY or END DEVICE) before test to make RWC5020A operate correctly.



Sensitivity Test Result





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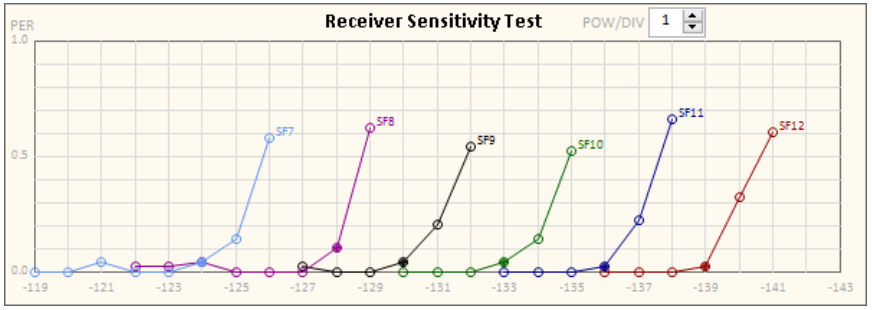

PER : PASS

SF	Start	Step	Stop	Target	#Pkt	Criteria	Rersult	Verdict
SF12	-136	1	-143	0.1	50	-136	-139/0.02	PASS
SF11	-133	1	-142	0.1	50	-133	-136/0.02	PASS
SF10	-130	1	-139	0.1	50	-132	-133/0.04	PASS
SF9	-127	1	-136	0.1	50	-129	-130/0.04	PASS
SF8	-122	1	-131	0.1	50	-126	-128/0.1	PASS
SF7	-119	1	-128	0.1	50	-123	-124/0.04	PASS

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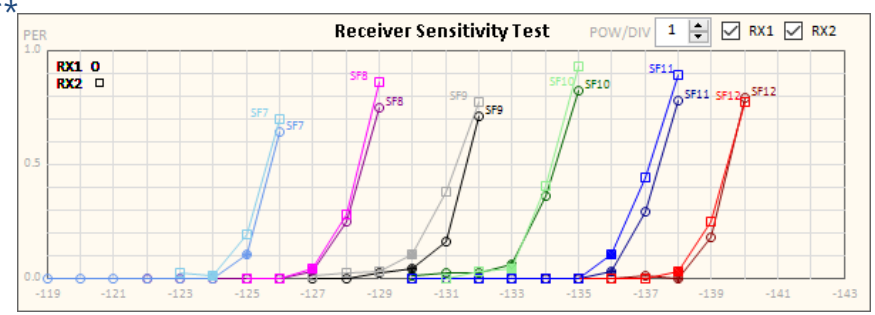

PER using RX1 Window : PASS

SF	Start	Step	Stop	Target	#Pkt	Criteria	Rersult	Verdict
SF12	-134	1	-143	0.1	100	-136	-138/0	PASS
SF11	-130	1	-139	0.1	100	-133	-136/0.03	PASS
SF10	-130	1	-139	0.1	100	-132	-133/0.06	PASS
SF9	-127	1	-134	0.1	100	-129	-130/0.04	PASS
SF8	-122	1	-131	0.1	100	-126	-127/0.03	PASS
SF7	-119	1	-128	0.1	100	-123	-125/0.1	PASS

PER using RX2 Window : PASS

SF	Start	Step	Stop	Target	#Pkt	Criteria	Rersult	Verdict
SF12	-134	1	-143	0.1	100	-136	-138/0.03	PASS
SF11	-130	1	-139	0.1	100	-133	-136/0.1	PASS
SF10	-131	1	-135	0.1	100	-132	-133/0.04	PASS
SF9	-127	1	-133	0.1	100	-129	-130/0.1	PASS
SF8	-125	1	-129	0.1	100	-126	-127/0.04	PASS
SF7	-123	1	-127	0.1	100	-123	-124/0.01	PASS

* Result with a commercial gateway(conducted)
**Result with a commercial end device(conducted)