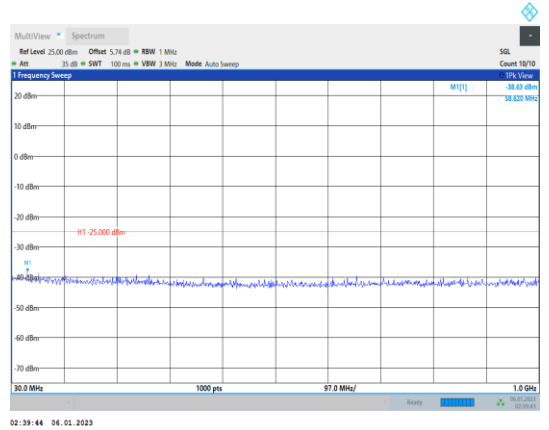
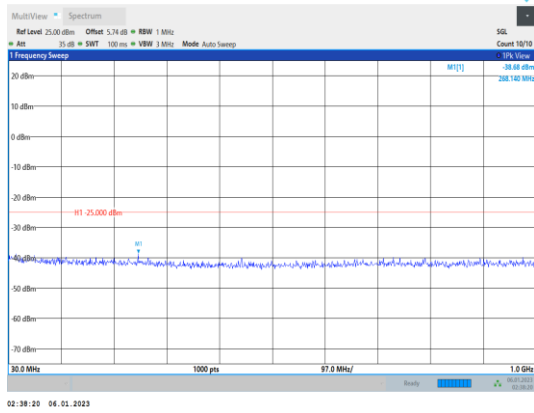
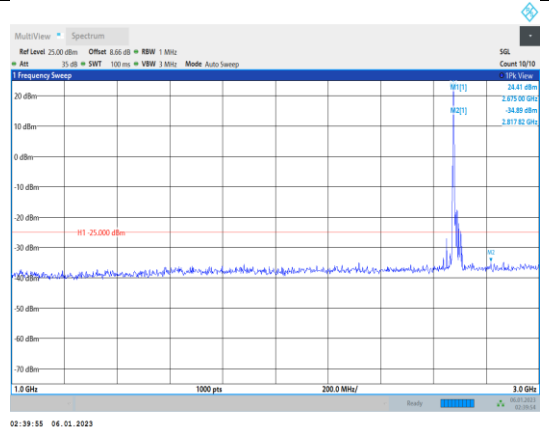
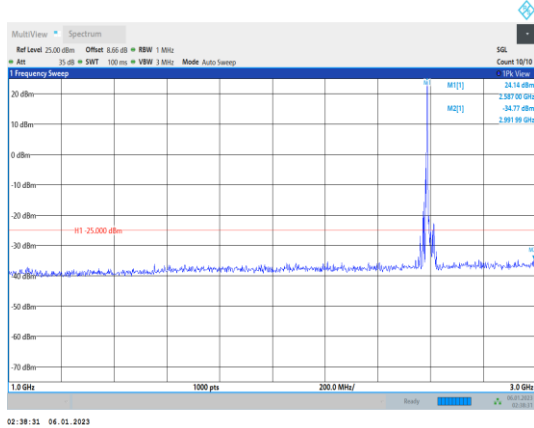


**Band41-15MHz-16QAM-40620-1RB#0-  
Range1:30~1000MHz**



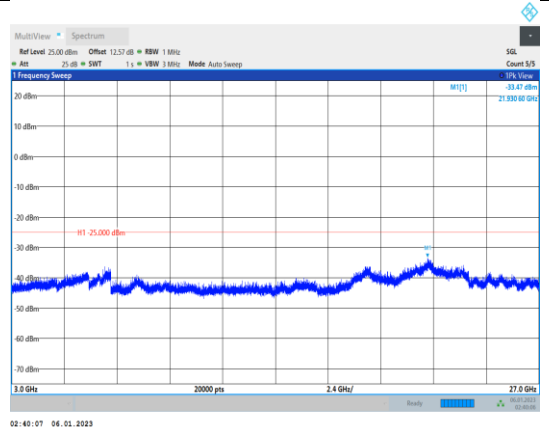
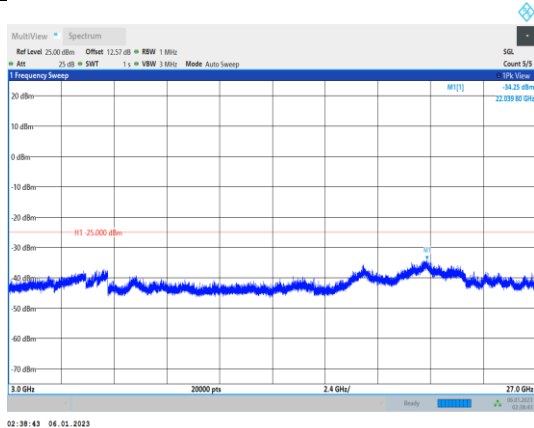
**Band41-15MHz-16QAM-41515-1RB#0-  
Range2:1000~3000MHz**

**Band41-15MHz-16QAM-40620-1RB#0-  
Range2:1000~3000MHz**



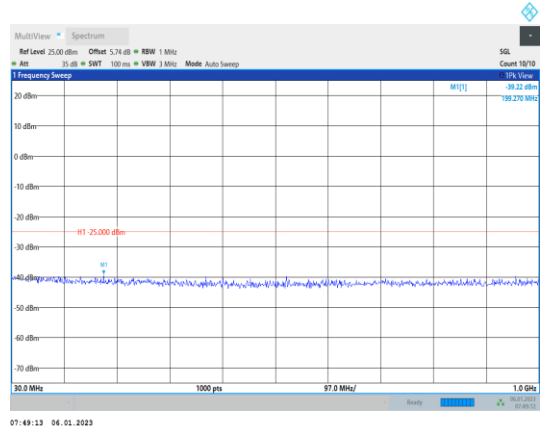
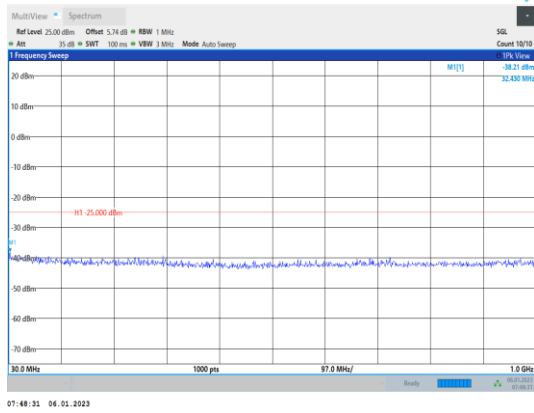
**Band41-15MHz-16QAM-41515-1RB#0-  
Range3:3000~27000MHz**

**Band41-15MHz-16QAM-40620-1RB#0-  
Range3:3000~27000MHz**



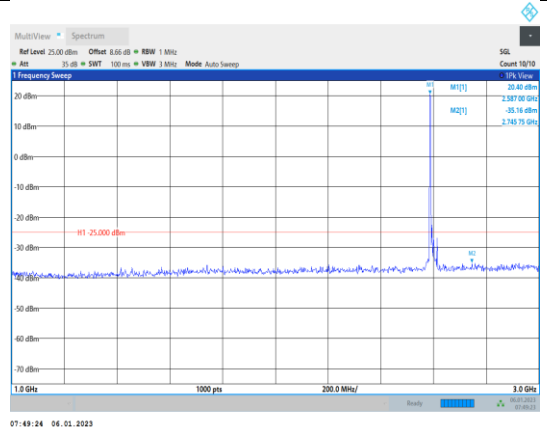
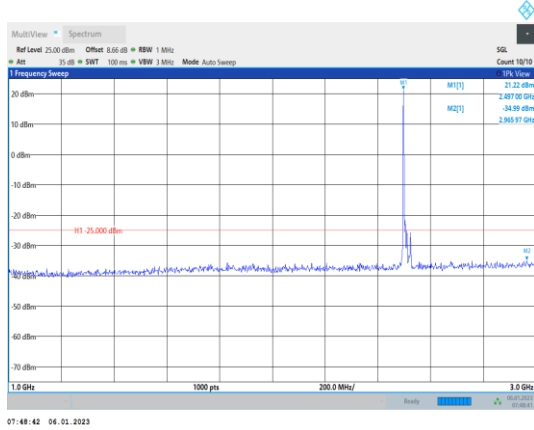
**Band41-15MHz-16QAM-41515-1RB#0-  
Range1:30~1000MHz**

**Band41-15MHz-64QAM-39725-1RB#0-  
Range1:30~1000MHz**



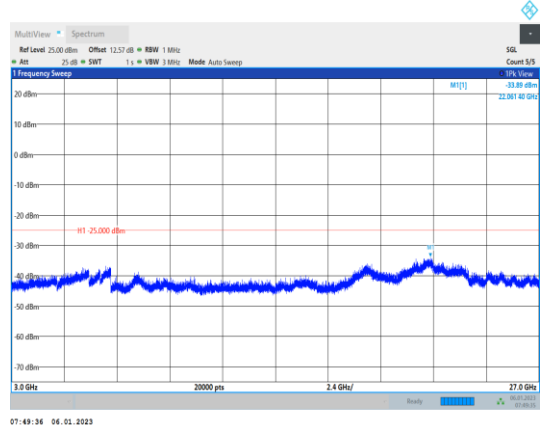
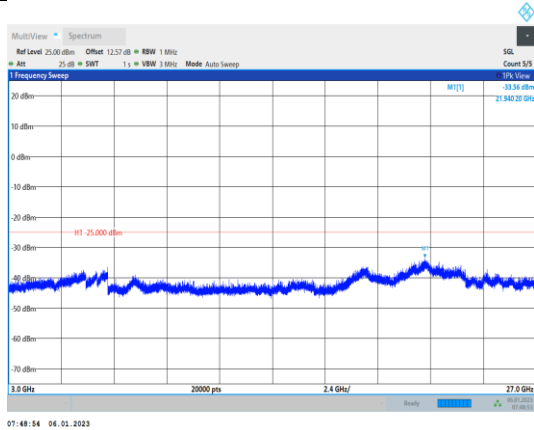
**Band41-15MHz-64QAM-40620-1RB#0-  
Range2:1000~3000MHz**

**Band41-15MHz-64QAM-39725-1RB#0-  
Range2:1000~3000MHz**



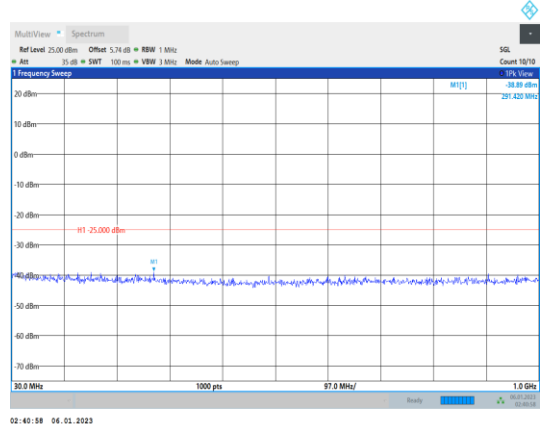
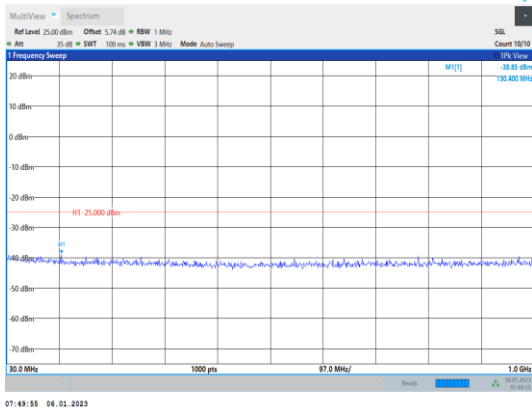
**Band41-15MHz-64QAM-40620-1RB#0-  
Range3:3000~27000MHz**

**Band41-15MHz-64QAM-39725-1RB#0-  
Range3:3000~27000MHz**



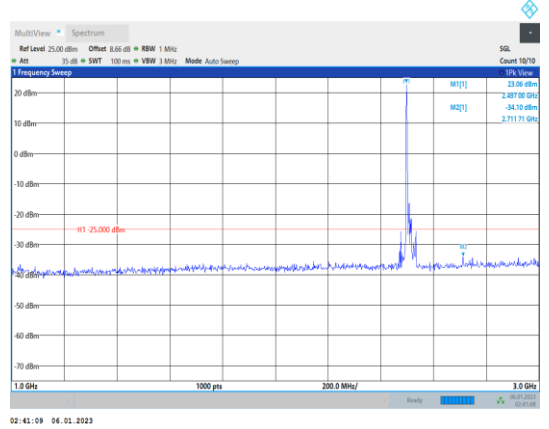
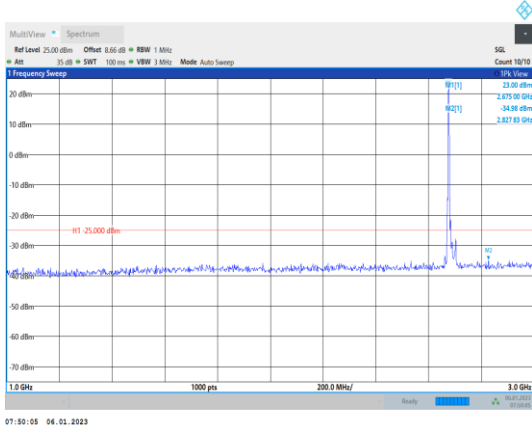
**Band41-15MHz-64QAM-40620-1RB#0-  
Range1:30~1000MHz**

**Band41-15MHz-64QAM-41515-1RB#0-  
Range1:30~1000MHz**



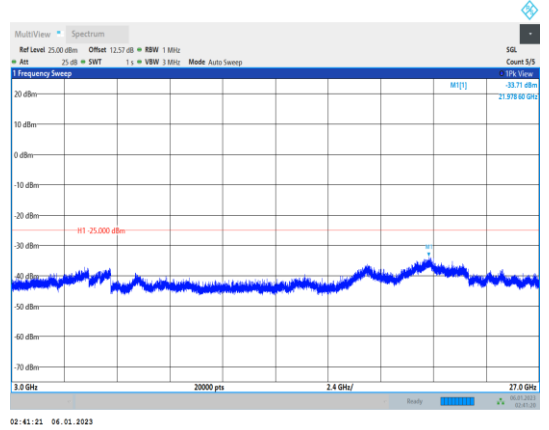
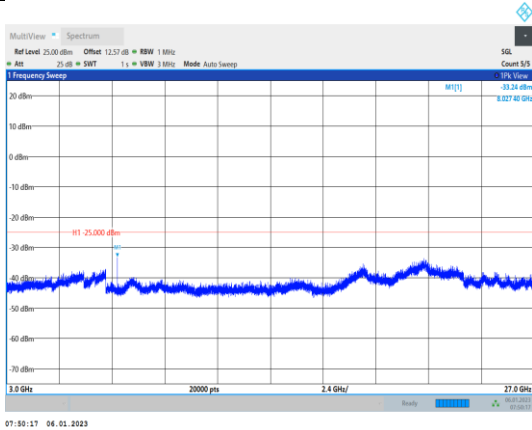
**Band41-20MHz-QPSK-39750-1RB#0-  
Range2:1000~3000MHz**

**Band41-15MHz-64QAM-41515-1RB#0-  
Range2:1000~3000MHz**



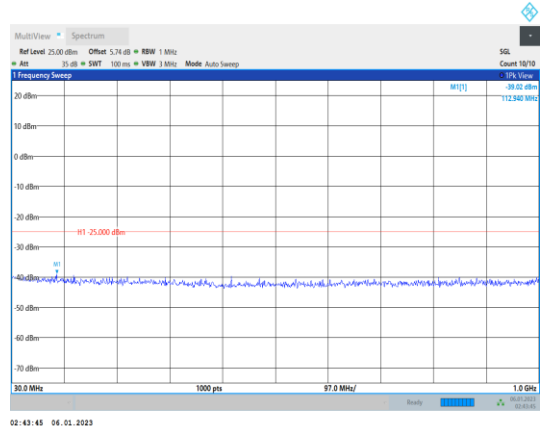
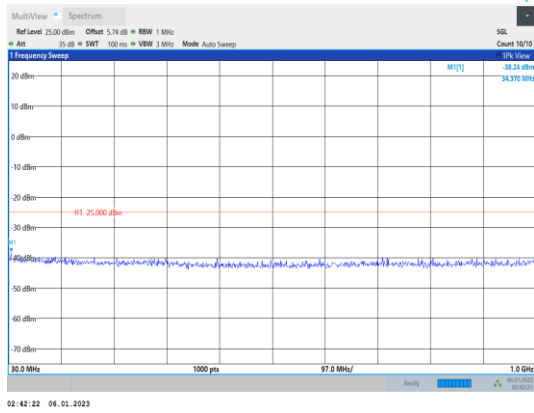
**Band41-20MHz-QPSK-39750-1RB#0-  
Range3:3000~27000MHz**

**Band41-15MHz-64QAM-41515-1RB#0-  
Range3:3000~27000MHz**



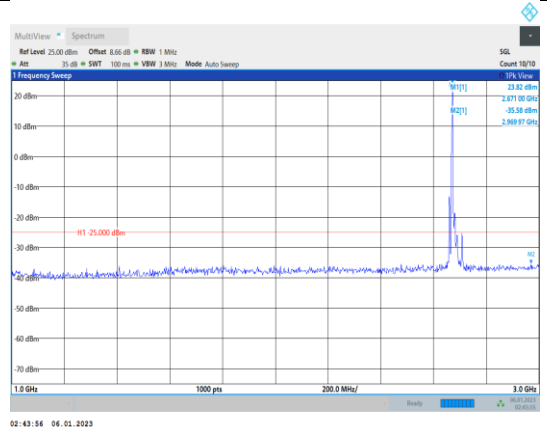
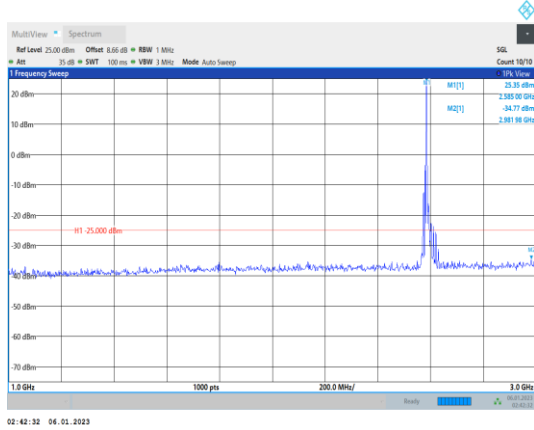
**Band41-20MHz-QPSK-39750-1RB#0-  
Range1:30~1000MHz**

**Band41-20MHz-QPSK-40620-1RB#0-  
Range1:30~1000MHz**



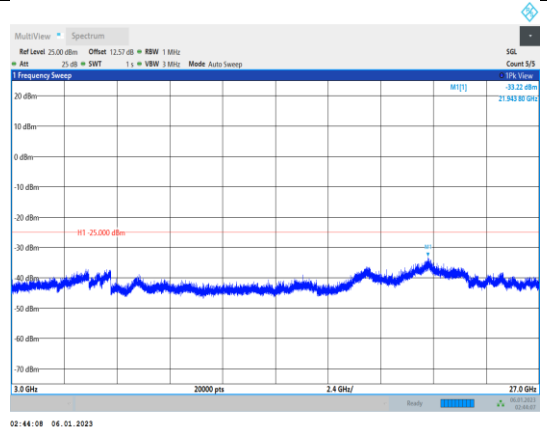
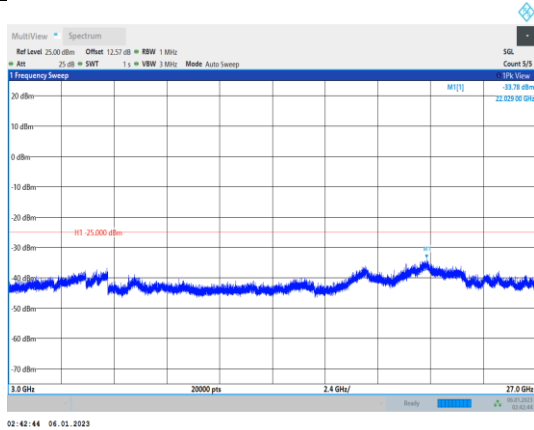
**Band41-20MHz-QPSK-41490-1RB#0-  
Range2:1000~3000MHz**

**Band41-20MHz-QPSK-40620-1RB#0-  
Range2:1000~3000MHz**



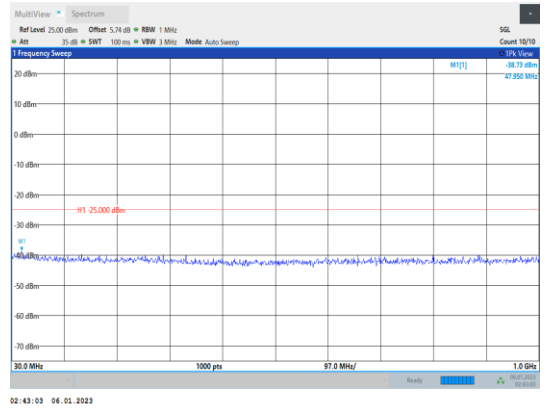
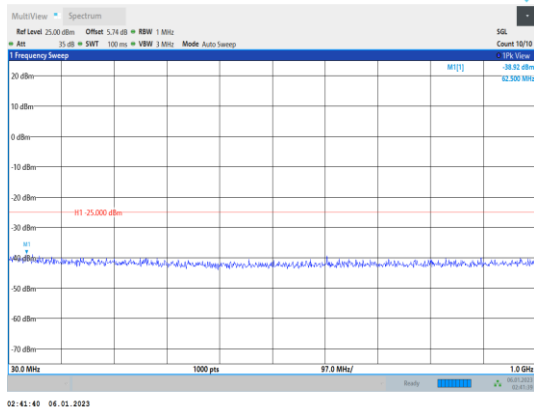
**Band41-20MHz-QPSK-41490-1RB#0-  
Range3:3000~27000MHz**

**Band41-20MHz-QPSK-40620-1RB#0-  
Range3:3000~27000MHz**



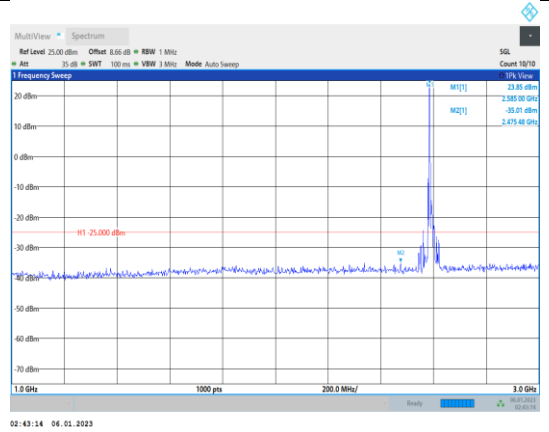
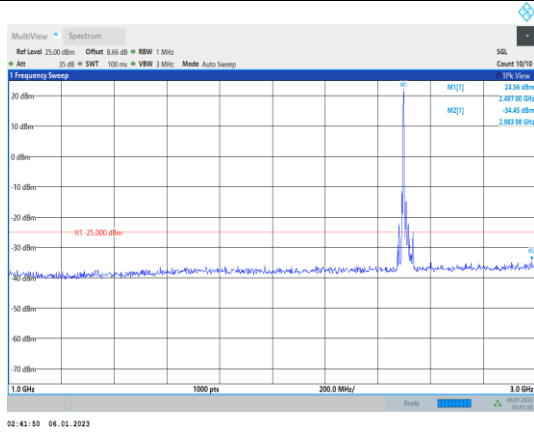
**Band41-20MHz-QPSK-41490-1RB#0-  
Range1:30~1000MHz**

**Band41-20MHz-16QAM-39750-1RB#0-  
Range1:30~1000MHz**



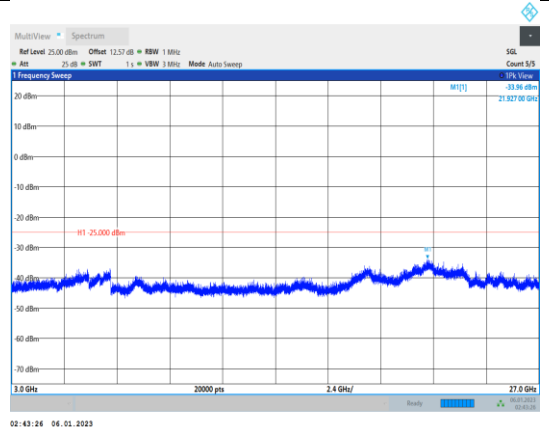
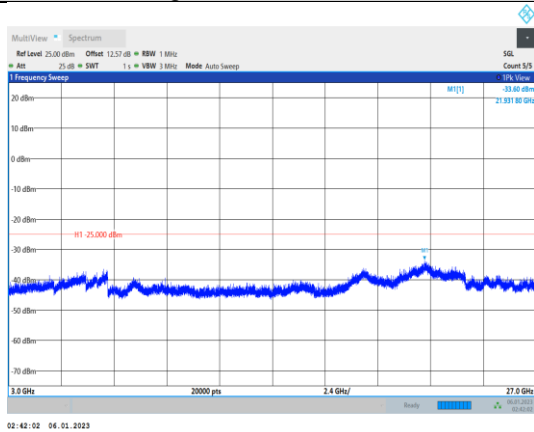
**Band41-20MHz-16QAM-40620-1RB#0-  
Range2:1000~3000MHz**

**Band41-20MHz-16QAM-39750-1RB#0-  
Range2:1000~3000MHz**



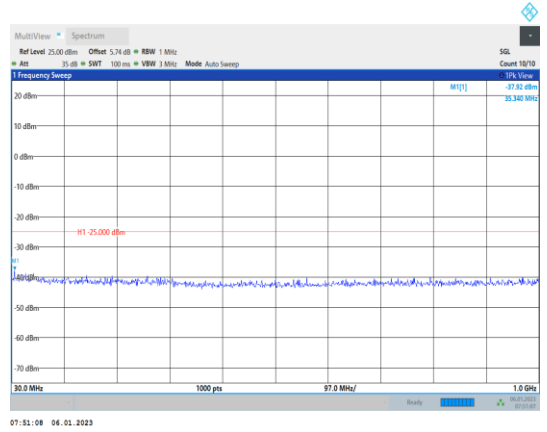
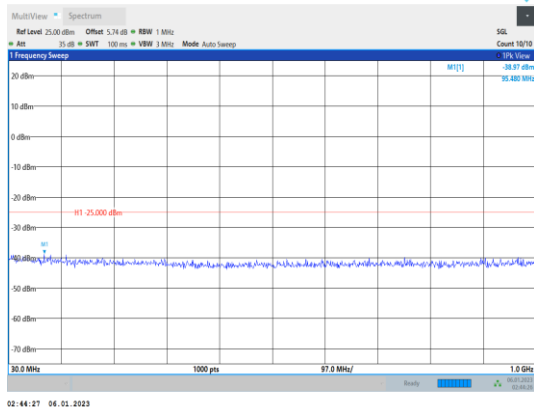
**Band41-20MHz-16QAM-40620-1RB#0-  
Range3:3000~27000MHz**

**Band41-20MHz-16QAM-39750-1RB#0-  
Range3:3000~27000MHz**



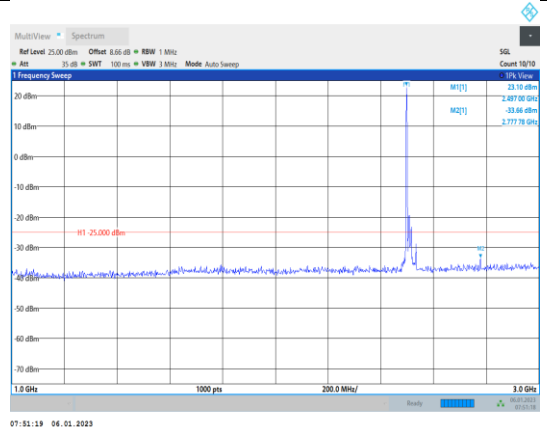
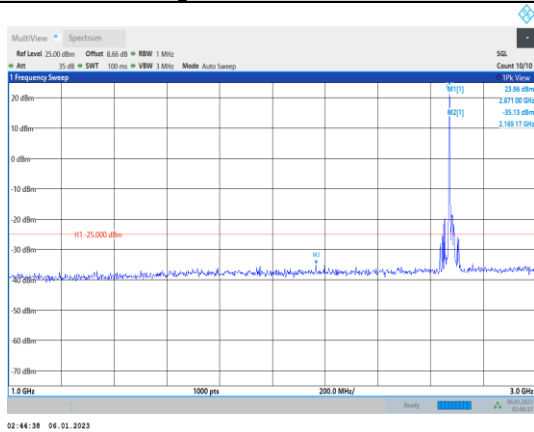
**Band41-20MHz-16QAM-40620-1RB#0-  
Range1:30~1000MHz**

**Band41-20MHz-16QAM-41490-1RB#0-  
Range1:30~1000MHz**



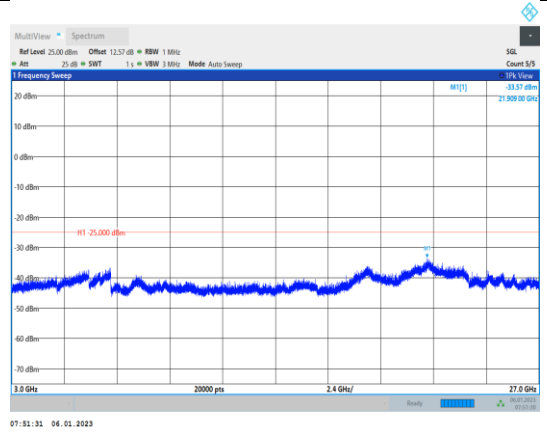
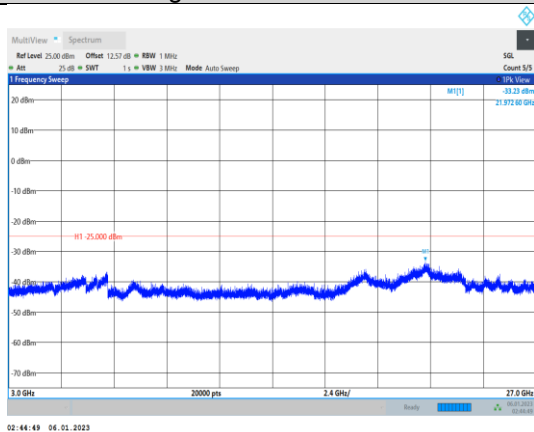
**Band41-20MHz-64QAM-39750-1RB#0-  
Range2:1000~3000MHz**

**Band41-20MHz-16QAM-41490-1RB#0-  
Range2:1000~3000MHz**



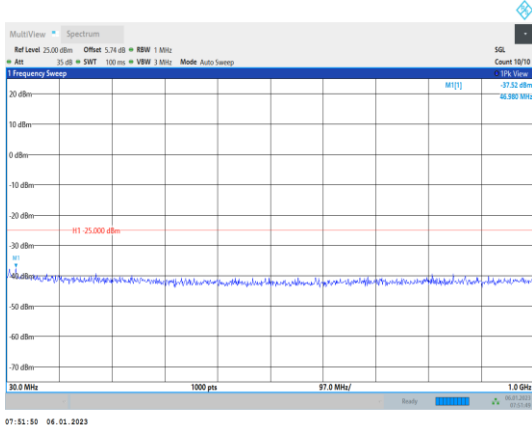
**Band41-20MHz-64QAM-39750-1RB#0-  
Range3:3000~27000MHz**

**Band41-20MHz-16QAM-41490-1RB#0-  
Range3:3000~27000MHz**

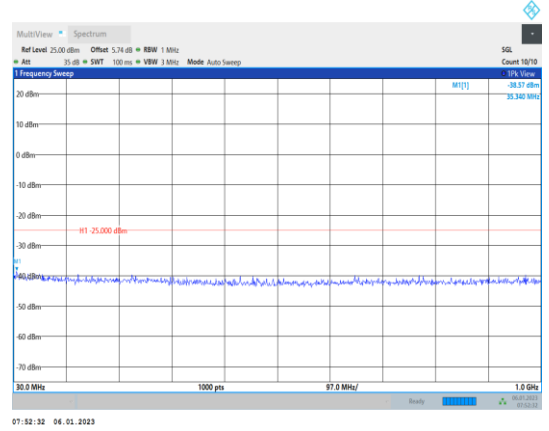


**Band41-20MHz-64QAM-39750-1RB#0-  
Range1:30~1000MHz**

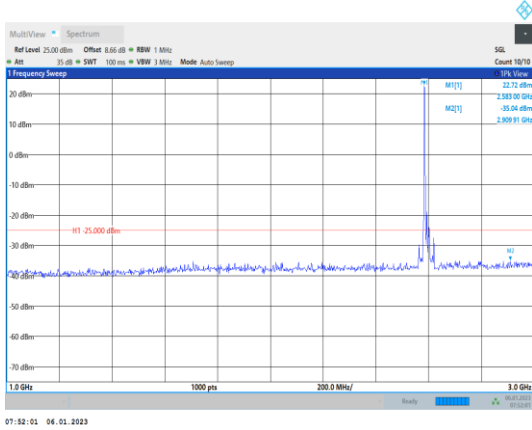
**Band41-20MHz-64QAM-40620-1RB#0-  
Range1:30~1000MHz**



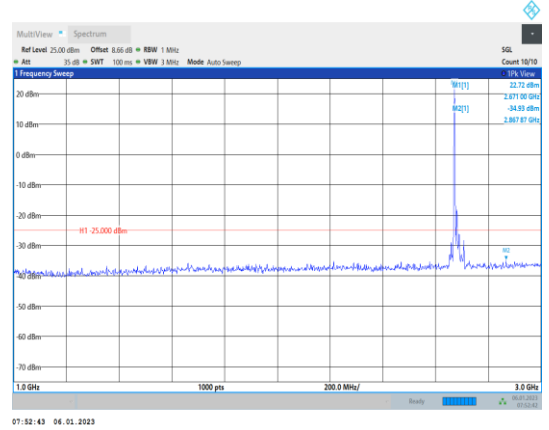
**Band41-20MHz-64QAM-41490-1RB#0-  
Range1:30~1000MHz**



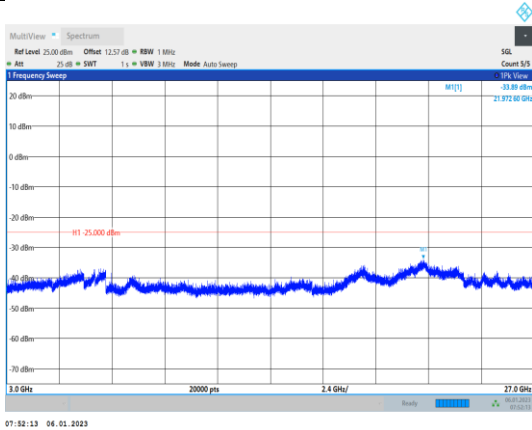
**Band41-20MHz-64QAM-40620-1RB#0-  
Range2:1000~3000MHz**



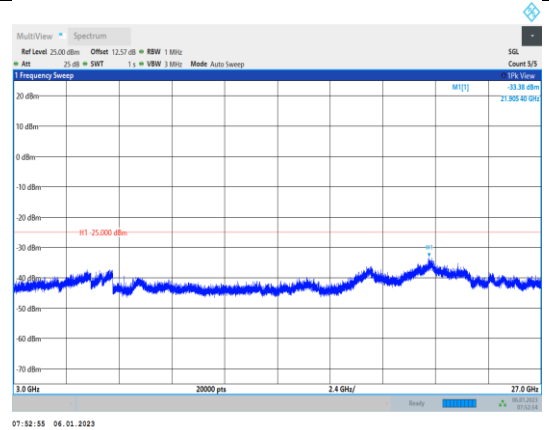
**Band41-20MHz-64QAM-41490-1RB#0-  
Range2:1000~3000MHz**



**Band41-20MHz-64QAM-40620-1RB#0-  
Range3:3000~27000MHz**



**Band41-20MHz-64QAM-41490-1RB#0-  
Range3:3000~27000MHz**



## 12. APPENDIX F: FREQUENCY STABILITY

### Frequency Error vs. Voltage:

GSM:

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	0.011830	±2.5	PASS
GSM850	128	VN	NT	0.007996	±2.5	PASS
GSM850	128	VH	NT	0.011126	±2.5	PASS
GSM850	190	VL	NT	0.009108	±2.5	PASS
GSM850	190	VN	NT	0.009610	±2.5	PASS
GSM850	190	VH	NT	0.008068	±2.5	PASS
GSM850	251	VL	NT	0.011793	±2.5	PASS
GSM850	251	VN	NT	0.015104	±2.5	PASS
GSM850	251	VH	NT	0.013195	±2.5	PASS
GPRS850	128	VL	NT	0.003324	±2.5	PASS
GPRS850	128	VN	NT	0.004186	±2.5	PASS
GPRS850	128	VH	NT	0.005254	±2.5	PASS
GPRS850	190	VL	NT	0.004554	±2.5	PASS
GPRS850	190	VN	NT	0.000347	±2.5	PASS
GPRS850	190	VH	NT	0.002235	±2.5	PASS
GPRS850	251	VL	NT	0.006963	±2.5	PASS
GPRS850	251	VN	NT	0.005631	±2.5	PASS
GPRS850	251	VH	NT	0.006279	±2.5	PASS
EGPRS850	128	VL	NT	0.002002	±2.5	PASS
EGPRS850	128	VN	NT	0.000631	±2.5	PASS
EGPRS850	128	VH	NT	0.002196	±2.5	PASS
EGPRS850	190	VL	NT	0.000155	±2.5	PASS
EGPRS850	190	VN	NT	-0.001279	±2.5	PASS
EGPRS850	190	VH	NT	0.001422	±2.5	PASS
EGPRS850	251	VL	NT	-0.000683	±2.5	PASS
EGPRS850	251	VN	NT	-0.002203	±2.5	PASS
EGPRS850	251	VH	NT	0.002698	±2.5	PASS
GSM1900	512	VL	NT	0.013382	±2.5	PASS
GSM1900	512	VN	NT	0.013631	±2.5	PASS
GSM1900	512	VH	NT	0.013085	±2.5	PASS
GSM1900	661	VL	NT	0.009686	±2.5	PASS
GSM1900	661	VN	NT	0.012106	±2.5	PASS
GSM1900	661	VH	NT	0.011266	±2.5	PASS
GSM1900	810	VL	NT	0.009079	±2.5	PASS
GSM1900	810	VN	NT	0.009367	±2.5	PASS
GSM1900	810	VH	NT	0.008959	±2.5	PASS
GPRS1900	512	VL	NT	0.009804	±2.5	PASS
GPRS1900	512	VN	NT	0.009194	±2.5	PASS
GPRS1900	512	VH	NT	0.008291	±2.5	PASS
GPRS1900	661	VL	NT	0.009995	±2.5	PASS
GPRS1900	661	VN	NT	0.009378	±2.5	PASS
GPRS1900	661	VH	NT	0.010080	±2.5	PASS



GPRS1900	810	VL	NT	0.006948	±2.5	PASS
GPRS1900	810	VN	NT	0.011362	±2.5	PASS
GPRS1900	810	VH	NT	0.009148	±2.5	PASS
EGPRS1900	512	VL	NT	0.008518	±2.5	PASS
EGPRS1900	512	VN	NT	0.008113	±2.5	PASS
EGPRS1900	512	VH	NT	0.008480	±2.5	PASS
EGPRS1900	661	VL	NT	0.006973	±2.5	PASS
EGPRS1900	661	VN	NT	0.007691	±2.5	PASS
EGPRS1900	661	VH	NT	0.008383	±2.5	PASS
EGPRS1900	810	VL	NT	0.004901	±2.5	PASS
EGPRS1900	810	VN	NT	0.007184	±2.5	PASS
EGPRS1900	810	VH	NT	0.004241	±2.5	PASS

**WCDMA:**

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-0.014206	±2.5	PASS
Band5	4132	VN	NT	-0.016699	±2.5	PASS
Band5	4132	VH	NT	-0.013226	±2.5	PASS
Band5	4182	VL	NT	-0.012865	±2.5	PASS
Band5	4182	VN	NT	-0.013044	±2.5	PASS
Band5	4182	VH	NT	-0.012901	±2.5	PASS
Band5	4233	VL	NT	-0.011150	±2.5	PASS
Band5	4233	VN	NT	-0.011977	±2.5	PASS
Band5	4233	VH	NT	-0.011753	±2.5	PASS

**LTE:**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-0.000239	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	-0.019366	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-0.005140	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	-0.011237	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	-0.000359	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	-0.014226	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	VL	NT	-0.003706	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	VN	NT	0.007651	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	VH	NT	-0.005858	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	-0.002750	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	-0.013030	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	-0.002869	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VL	NT	-0.003228	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	-0.001674	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	-0.002750	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	VL	NT	-0.006455	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	VN	NT	-0.012911	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	VH	NT	-0.003467	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-0.005499	±2.5	PASS

Band5	5MHz	QPSK	20525	25RB#0	VN	NT	-0.014585	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-0.008010	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	-0.003467	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	-0.002630	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	0.000478	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	VL	NT	-0.003825	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	VN	NT	-0.011596	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	VH	NT	-0.006336	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.006814	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.009444	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.011357	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-0.014704	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.004901	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-0.000359	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-0.012552	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-0.006695	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VL	NT	0.000592	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VN	NT	-0.006193	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	VH	NT	-0.005562	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VL	NT	-0.004536	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VN	NT	-0.007416	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	VH	NT	0.000907	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	VL	NT	0.000276	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	VN	NT	-0.003353	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	VH	NT	-0.003195	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VL	NT	-0.002209	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VN	NT	-0.003669	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	VH	NT	-0.003077	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VL	NT	-0.003353	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VN	NT	0.004379	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	VH	NT	-0.004497	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	VL	NT	0.001183	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	VN	NT	-0.003826	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	VH	NT	-0.004063	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VL	NT	-0.002170	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VN	NT	-0.007298	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	VH	NT	0.002998	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VL	NT	-0.002288	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VN	NT	0.000750	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	VH	NT	-0.005444	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	VL	NT	0.001144	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	VN	NT	-0.003866	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	VH	NT	-0.003156	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-0.000907	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-0.005128	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-0.002327	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	0.000828	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-0.004813	±2.5	PASS

Band7	20MHz	64QAM	21100	100RB#0	VL	NT	-0.001933	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-0.001499	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	-0.003984	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	0.002736	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	-0.002505	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	0.001464	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	-0.002620	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	-0.006012	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	-0.006435	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	VL	NT	-0.004085	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	VN	NT	-0.007399	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	VH	NT	-0.000039	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VL	NT	-0.002004	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VN	NT	-0.003083	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VH	NT	-0.004855	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VL	NT	-0.002081	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VN	NT	-0.002775	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VH	NT	-0.004971	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	VL	NT	-0.003931	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	VN	NT	-0.009056	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	VH	NT	0.000308	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VL	NT	0.000077	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VN	NT	-0.004085	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VH	NT	-0.001195	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VL	NT	-0.002659	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VN	NT	-0.006050	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VH	NT	-0.002543	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	VL	NT	-0.002235	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	VN	NT	-0.004085	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	VH	NT	-0.000270	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-0.002582	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-0.006975	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-0.005434	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-0.002428	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-0.000617	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-0.002620	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-0.001002	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-0.004008	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-0.004355	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VL	NT	0.002430	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VN	NT	-0.001311	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	VH	NT	-0.001465	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VL	NT	-0.004435	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VN	NT	-0.002507	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	VH	NT	0.000193	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	VL	NT	0.001504	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	VN	NT	-0.009217	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	VH	NT	0.001388	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VL	NT	-0.005476	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	VN	NT	-0.005438	±2.5	PASS

Band41	10MHz	QPSK	40620	50RB#0	VH	NT	-0.004358	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VL	NT	-0.004474	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VN	NT	-0.003818	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	VH	NT	-0.000347	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	VL	NT	-0.002237	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	VN	NT	-0.002352	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	VH	NT	-0.004705	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VL	NT	0.001543	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VN	NT	-0.000964	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	VH	NT	-0.000733	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VL	NT	-0.004705	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VN	NT	-0.000656	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	VH	NT	-0.004088	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	VL	NT	-0.004281	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	VN	NT	-0.005438	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	VH	NT	-0.006440	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.003857	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-0.002198	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-0.004975	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-0.000270	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-0.001543	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	-0.002121	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VL	NT	-0.005746	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VN	NT	-0.003432	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VH	NT	-0.003895	±2.5	PASS

## Frequency Error vs. Temperature:

### GSM:

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	0.008505	±2.5	PASS
GSM850	128	NV	-20	0.010337	±2.5	PASS
GSM850	128	NV	-10	0.010143	±2.5	PASS
GSM850	128	NV	0	0.008809	±2.5	PASS
GSM850	128	NV	10	0.011441	±2.5	PASS
GSM850	128	NV	20	0.007911	±2.5	PASS
GSM850	128	NV	30	0.011126	±2.5	PASS
GSM850	128	NV	40	0.010847	±2.5	PASS
GSM850	128	NV	50	0.006819	±2.5	PASS
GSM850	190	NV	-30	0.010304	±2.5	PASS
GSM850	190	NV	-20	0.011810	±2.5	PASS
GSM850	190	NV	-10	0.011690	±2.5	PASS
GSM850	190	NV	0	0.012933	±2.5	PASS
GSM850	190	NV	10	0.012192	±2.5	PASS
GSM850	190	NV	20	0.012933	±2.5	PASS
GSM850	190	NV	30	0.011379	±2.5	PASS
GSM850	190	NV	40	0.009491	±2.5	PASS
GSM850	190	NV	50	0.009527	±2.5	PASS

GSM850	251	NV	-30	0.015328	±2.5	PASS
GSM850	251	NV	-20	0.012700	±2.5	PASS
GSM850	251	NV	-10	0.012441	±2.5	PASS
GSM850	251	NV	0	0.012052	±2.5	PASS
GSM850	251	NV	10	0.016164	±2.5	PASS
GSM850	251	NV	20	0.013160	±2.5	PASS
GSM850	251	NV	30	0.015822	±2.5	PASS
GSM850	251	NV	40	0.013124	±2.5	PASS
GSM850	251	NV	50	0.012630	±2.5	PASS
GPRS850	128	NV	-30	0.006273	±2.5	PASS
GPRS850	128	NV	-20	0.005521	±2.5	PASS
GPRS850	128	NV	-10	0.009051	±2.5	PASS
GPRS850	128	NV	0	0.003834	±2.5	PASS
GPRS850	128	NV	10	0.005254	±2.5	PASS
GPRS850	128	NV	20	0.006540	±2.5	PASS
GPRS850	128	NV	30	0.004429	±2.5	PASS
GPRS850	128	NV	40	0.006976	±2.5	PASS
GPRS850	128	NV	50	0.005521	±2.5	PASS
GPRS850	190	NV	-30	0.006981	±2.5	PASS
GPRS850	190	NV	-20	0.003980	±2.5	PASS
GPRS850	190	NV	-10	0.005128	±2.5	PASS
GPRS850	190	NV	0	0.005594	±2.5	PASS
GPRS850	190	NV	10	0.004052	±2.5	PASS
GPRS850	190	NV	20	0.003168	±2.5	PASS
GPRS850	190	NV	30	0.005594	±2.5	PASS
GPRS850	190	NV	40	0.003431	±2.5	PASS
GPRS850	190	NV	50	0.004710	±2.5	PASS
GPRS850	251	NV	-30	0.005514	±2.5	PASS
GPRS850	251	NV	-20	0.006091	±2.5	PASS
GPRS850	251	NV	-10	0.006433	±2.5	PASS
GPRS850	251	NV	0	0.004713	±2.5	PASS
GPRS850	251	NV	10	0.003688	±2.5	PASS
GPRS850	251	NV	20	0.007646	±2.5	PASS
GPRS850	251	NV	30	0.001638	±2.5	PASS
GPRS850	251	NV	40	0.004559	±2.5	PASS
GPRS850	251	NV	50	0.009390	±2.5	PASS
EGPRS850	128	NV	-30	0.001881	±2.5	PASS
EGPRS850	128	NV	-20	0.003798	±2.5	PASS
EGPRS850	128	NV	-10	0.002584	±2.5	PASS
EGPRS850	128	NV	0	0.001650	±2.5	PASS
EGPRS850	128	NV	10	0.002512	±2.5	PASS
EGPRS850	128	NV	20	0.002512	±2.5	PASS
EGPRS850	128	NV	30	0.001529	±2.5	PASS
EGPRS850	128	NV	40	0.001250	±2.5	PASS
EGPRS850	128	NV	50	0.000036	±2.5	PASS
EGPRS850	190	NV	-30	-0.004016	±2.5	PASS
EGPRS850	190	NV	-20	-0.002701	±2.5	PASS
EGPRS850	190	NV	-10	-0.000777	±2.5	PASS
EGPRS850	190	NV	0	-0.002008	±2.5	PASS
EGPRS850	190	NV	10	0.003048	±2.5	PASS

EGPRS850	190	NV	20	-0.004829	±2.5	PASS
EGPRS850	190	NV	30	-0.000383	±2.5	PASS
EGPRS850	190	NV	40	0.001315	±2.5	PASS
EGPRS850	190	NV	50	-0.000885	±2.5	PASS
EGPRS850	251	NV	-30	0.003570	±2.5	PASS
EGPRS850	251	NV	-20	0.004830	±2.5	PASS
EGPRS850	251	NV	-10	0.000566	±2.5	PASS
EGPRS850	251	NV	0	-0.000224	±2.5	PASS
EGPRS850	251	NV	10	0.001449	±2.5	PASS
EGPRS850	251	NV	20	0.001025	±2.5	PASS
EGPRS850	251	NV	30	0.002132	±2.5	PASS
EGPRS850	251	NV	40	-0.000224	±2.5	PASS
EGPRS850	251	NV	50	0.004065	±2.5	PASS
GSM1900	512	NV	-30	0.011885	±2.5	PASS
GSM1900	512	NV	-20	0.011377	±2.5	PASS
GSM1900	512	NV	-10	0.013788	±2.5	PASS
GSM1900	512	NV	0	0.012772	±2.5	PASS
GSM1900	512	NV	10	0.011026	±2.5	PASS
GSM1900	512	NV	20	0.013523	±2.5	PASS
GSM1900	512	NV	30	0.013766	±2.5	PASS
GSM1900	512	NV	40	0.011588	±2.5	PASS
GSM1900	512	NV	50	0.012182	±2.5	PASS
GSM1900	661	NV	-30	0.011729	±2.5	PASS
GSM1900	661	NV	-20	0.012761	±2.5	PASS
GSM1900	661	NV	-10	0.012793	±2.5	PASS
GSM1900	661	NV	0	0.011676	±2.5	PASS
GSM1900	661	NV	10	0.012431	±2.5	PASS
GSM1900	661	NV	20	0.012367	±2.5	PASS
GSM1900	661	NV	30	0.012899	±2.5	PASS
GSM1900	661	NV	40	0.010973	±2.5	PASS
GSM1900	661	NV	50	0.013431	±2.5	PASS
GSM1900	810	NV	-30	0.009975	±2.5	PASS
GSM1900	810	NV	-20	0.010043	±2.5	PASS
GSM1900	810	NV	-10	0.009179	±2.5	PASS
GSM1900	810	NV	0	0.011022	±2.5	PASS
GSM1900	810	NV	10	0.010970	±2.5	PASS
GSM1900	810	NV	20	0.010247	±2.5	PASS
GSM1900	810	NV	30	0.010006	±2.5	PASS
GSM1900	810	NV	40	0.009467	±2.5	PASS
GSM1900	810	NV	50	0.013069	±2.5	PASS
GPRS1900	512	NV	-30	0.007783	±2.5	PASS
GPRS1900	512	NV	-20	0.008291	±2.5	PASS
GPRS1900	512	NV	-10	0.006751	±2.5	PASS
GPRS1900	512	NV	0	0.009875	±2.5	PASS
GPRS1900	512	NV	10	0.007156	±2.5	PASS
GPRS1900	512	NV	20	0.008253	±2.5	PASS
GPRS1900	512	NV	30	0.008934	±2.5	PASS
GPRS1900	512	NV	40	0.009129	±2.5	PASS
GPRS1900	512	NV	50	0.011274	±2.5	PASS
GPRS1900	661	NV	-30	0.008484	±2.5	PASS

GPRS1900	661	NV	-20	0.009633	±2.5	PASS
GPRS1900	661	NV	-10	0.009223	±2.5	PASS
GPRS1900	661	NV	0	0.009824	±2.5	PASS
GPRS1900	661	NV	10	0.007452	±2.5	PASS
GPRS1900	661	NV	20	0.008707	±2.5	PASS
GPRS1900	661	NV	30	0.009271	±2.5	PASS
GPRS1900	661	NV	40	0.008585	±2.5	PASS
GPRS1900	661	NV	50	0.008537	±2.5	PASS
GPRS1900	810	NV	-30	0.006037	±2.5	PASS
GPRS1900	810	NV	-20	0.007708	±2.5	PASS
GPRS1900	810	NV	-10	0.007812	±2.5	PASS
GPRS1900	810	NV	0	0.010430	±2.5	PASS
GPRS1900	810	NV	10	0.006037	±2.5	PASS
GPRS1900	810	NV	20	0.007336	±2.5	PASS
GPRS1900	810	NV	30	0.006896	±2.5	PASS
GPRS1900	810	NV	40	0.008739	±2.5	PASS
GPRS1900	810	NV	50	0.006137	±2.5	PASS
EGPRS1900	512	NV	-30	0.006843	±2.5	PASS
EGPRS1900	512	NV	-20	0.008026	±2.5	PASS
EGPRS1900	512	NV	-10	0.006140	±2.5	PASS
EGPRS1900	512	NV	0	0.007556	±2.5	PASS
EGPRS1900	512	NV	10	0.010156	±2.5	PASS
EGPRS1900	512	NV	20	0.008340	±2.5	PASS
EGPRS1900	512	NV	30	0.008167	±2.5	PASS
EGPRS1900	512	NV	40	0.009945	±2.5	PASS
EGPRS1900	512	NV	50	0.008496	±2.5	PASS
EGPRS1900	661	NV	-30	0.007606	±2.5	PASS
EGPRS1900	661	NV	-20	0.008090	±2.5	PASS
EGPRS1900	661	NV	-10	0.007676	±2.5	PASS
EGPRS1900	661	NV	0	0.006782	±2.5	PASS
EGPRS1900	661	NV	10	0.008314	±2.5	PASS
EGPRS1900	661	NV	20	0.007128	±2.5	PASS
EGPRS1900	661	NV	30	0.006234	±2.5	PASS
EGPRS1900	661	NV	40	0.007298	±2.5	PASS
EGPRS1900	661	NV	50	0.005819	±2.5	PASS
EGPRS1900	810	NV	-30	0.006477	±2.5	PASS
EGPRS1900	810	NV	-20	0.006016	±2.5	PASS
EGPRS1900	810	NV	-10	0.006069	±2.5	PASS
EGPRS1900	810	NV	0	0.006425	±2.5	PASS
EGPRS1900	810	NV	10	0.006189	±2.5	PASS
EGPRS1900	810	NV	20	0.003147	±2.5	PASS
EGPRS1900	810	NV	30	0.004414	±2.5	PASS
EGPRS1900	810	NV	40	0.002670	±2.5	PASS
EGPRS1900	810	NV	50	0.005273	±2.5	PASS

**WCDMA:**

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
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Band5	4132	NV	-30	-0.013190	±2.5	PASS
Band5	4132	NV	-20	-0.012754	±2.5	PASS
Band5	4132	NV	0	-0.011810	±2.5	PASS
Band5	4132	NV	10	-0.012633	±2.5	PASS
Band5	4132	NV	20	-0.012076	±2.5	PASS
Band5	4132	NV	30	-0.012633	±2.5	PASS
Band5	4132	NV	40	-0.011375	±2.5	PASS
Band5	4132	NV	50	-0.011750	±2.5	PASS
Band5	4182	NV	-30	-0.012303	±2.5	PASS
Band5	4182	NV	-20	-0.011059	±2.5	PASS
Band5	4182	NV	0	-0.011526	±2.5	PASS
Band5	4182	NV	10	-0.011454	±2.5	PASS
Band5	4182	NV	20	-0.011549	±2.5	PASS
Band5	4182	NV	30	-0.012554	±2.5	PASS
Band5	4182	NV	40	-0.012972	±2.5	PASS
Band5	4182	NV	50	-0.009840	±2.5	PASS
Band5	4233	NV	-30	-0.010465	±2.5	PASS
Band5	4233	NV	-20	-0.009981	±2.5	PASS
Band5	4233	NV	0	-0.012403	±2.5	PASS
Band5	4233	NV	10	-0.009910	±2.5	PASS
Band5	4233	NV	20	-0.009639	±2.5	PASS
Band5	4233	NV	30	-0.010017	±2.5	PASS
Band5	4233	NV	40	-0.010087	±2.5	PASS
Band5	4233	NV	50	-0.008918	±2.5	PASS

**LTE:**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-0.007890	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-0.005738	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-0.002750	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-0.010640	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-0.010520	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-0.009803	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-0.003706	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-0.004782	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-0.004304	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-0.004423	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	0.000359	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-0.013270	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-0.015182	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-0.006455	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-0.004304	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-0.003586	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	-30	-0.002989	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	-20	-0.012313	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	0	-0.002510	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	10	-0.007651	±2.5	PASS



Band5	1.4MHz	64QAM	20525	6RB#0	NV	20	-0.006336	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	30	-0.006695	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	40	-0.006455	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	50	-0.006455	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	-0.007890	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	-0.006575	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	-0.008607	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-0.011237	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	-0.006814	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	-0.004662	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	-0.008607	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	-0.009564	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-0.014106	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	-0.010042	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-0.003945	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-0.002152	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	-0.013270	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	-0.013748	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	-0.008727	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	-0.009683	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	-30	-0.007173	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	-20	-0.006336	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	0	-0.004901	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	10	-0.003586	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	20	-0.004065	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	30	-0.004423	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	40	-0.007651	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	50	-0.007292	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-0.009803	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-0.002869	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-0.007531	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	-0.002989	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	-0.002750	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	-0.011237	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	-0.007292	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	-0.007651	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-0.007292	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-0.009564	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-0.005140	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-0.006216	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-0.012791	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	-0.009085	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	-0.009922	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	-0.001195	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	-30	-0.005619	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	-20	-0.006934	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	0	-0.016856	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	10	-0.006336	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	20	-0.010281	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	30	-0.005380	±2.5	PASS

Band5	5MHz	64QAM	20525	25RB#0	NV	40	-0.010520	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	50	-0.003706	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.003108	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.005260	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.008129	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.002271	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.006097	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.006934	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.012074	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-0.008966	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.007173	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-0.006336	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.004662	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-0.008607	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-0.009683	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	-0.007770	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-0.009325	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-0.010879	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-0.007173	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-0.002032	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	-0.008488	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-0.011237	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	-30	0.000473	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	-20	-0.003314	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	0	-0.004379	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	10	0.000276	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	20	-0.007653	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	30	-0.002525	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	40	0.002130	±2.5	PASS
Band7	5MHz	QPSK	21100	25RB#0	NV	50	-0.004892	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	-30	0.002051	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	-20	-0.003748	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	0	0.004694	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	10	-0.006154	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	20	0.001933	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	30	-0.004734	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	40	-0.005325	±2.5	PASS
Band7	5MHz	16QAM	21100	25RB#0	NV	50	-0.004536	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	-30	-0.003629	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	-20	-0.001105	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	0	-0.002564	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	10	0.000394	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	20	-0.001538	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	30	0.002604	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	40	-0.000079	±2.5	PASS
Band7	5MHz	64QAM	21100	25RB#0	NV	50	-0.002525	±2.5	PASS

Band7	10MHz	QPSK	21100	50RB#0	NV	-30	0.004339	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	-20	-0.002249	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	0	-0.005247	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	10	0.001972	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	20	-0.003945	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	30	-0.005325	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	40	-0.004615	±2.5	PASS
Band7	10MHz	QPSK	21100	50RB#0	NV	50	0.001460	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	-30	0.000592	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	-20	-0.002919	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	0	-0.003393	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	10	-0.001578	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	20	-0.003077	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	30	0.001893	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	40	-0.000276	±2.5	PASS
Band7	10MHz	16QAM	21100	50RB#0	NV	50	-0.007416	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	-30	-0.005089	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	-20	-0.003432	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	0	0.001026	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	10	-0.002682	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	20	-0.003393	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	30	-0.002209	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	40	-0.004576	±2.5	PASS
Band7	10MHz	64QAM	21100	50RB#0	NV	50	-0.006903	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	-30	-0.004536	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	-20	-0.005957	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	0	0.001262	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	10	0.001696	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	20	-0.003116	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	30	-0.003156	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	40	0.001105	±2.5	PASS
Band7	15MHz	QPSK	21100	75RB#0	NV	50	-0.003866	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	-30	-0.003787	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	-20	-0.005641	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	0	-0.004300	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	10	-0.002288	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	20	-0.003945	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	30	0.002485	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	40	-0.003195	±2.5	PASS
Band7	15MHz	16QAM	21100	75RB#0	NV	50	-0.002840	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-30	-0.004852	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-20	-0.004142	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	0	-0.002525	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	10	0.001223	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	20	0.001775	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	30	-0.000316	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	40	-0.005365	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	50	-0.003984	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-0.006706	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.003787	±2.5	PASS

Band7	20MHz	QPSK	21100	100RB#0	NV	0	-0.003669	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.002643	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.000947	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-0.004694	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-0.006864	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.000237	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-0.005128	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-0.000907	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	0.000947	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	0.000828	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-0.006193	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	0.004576	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	0.000355	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	0.000394	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	-0.000552	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	-0.002604	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	0.000552	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	-0.002485	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-0.004694	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	-0.003787	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	-0.004458	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-30	-0.001156	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-20	-0.005318	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-10	-0.001734	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	0	-0.001541	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	10	-0.003622	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	20	-0.002967	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	30	-0.003545	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	40	-0.007245	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	50	-0.004316	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-30	-0.004509	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-20	-0.006243	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-10	-0.002659	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	0	-0.001888	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	10	-0.002697	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	20	-0.004586	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	30	-0.003931	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	40	-0.004046	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	50	-0.000771	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	-30	-0.004046	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	-20	0.000308	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	0	0.000270	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	10	-0.000193	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	20	-0.003391	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	30	-0.002312	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	40	0.000424	±2.5	PASS
Band38	5MHz	64QAM	38000	25RB#0	NV	50	0.000925	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-30	-0.006628	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-20	-0.005549	±2.5	PASS

Band38	10MHz	QPSK	38000	50RB#0	NV	-10	-0.002081	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	0	-0.005087	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	10	-0.004701	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	20	-0.007245	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	30	-0.006050	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	40	-0.006089	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	50	-0.003353	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	-30	-0.006551	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	-20	-0.005626	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	-10	-0.003776	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	0	-0.002543	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	10	-0.004624	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	20	0.000039	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	30	-0.001580	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	40	-0.001310	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	50	-0.002158	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	-30	-0.005010	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	-20	-0.004432	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	0	-0.003160	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	10	-0.000077	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	20	0.000385	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	30	-0.004046	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	40	-0.001310	±2.5	PASS
Band38	10MHz	64QAM	38000	50RB#0	NV	50	-0.000617	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-30	-0.003276	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-20	-0.005588	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-10	-0.004470	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	0	-0.004740	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	10	-0.005626	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	20	-0.004239	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	30	-0.000539	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	40	-0.005665	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	50	-0.002736	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	-30	-0.005896	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	-20	-0.001618	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	-10	-0.005318	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	0	-0.010058	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	10	-0.004200	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	20	-0.078767	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	30	-0.001195	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	40	-0.002081	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	50	-0.003584	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	-30	-0.000462	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	-20	-0.001618	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	0	-0.005434	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	10	-0.001040	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	20	-0.003854	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	30	-0.004855	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	40	-0.000771	±2.5	PASS
Band38	15MHz	64QAM	38000	75RB#0	NV	50	-0.000424	±2.5	PASS

Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-0.003892	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-0.004162	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-0.004277	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-0.004239	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-0.004008	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	0.001156	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-0.003391	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-0.005434	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-0.001426	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-0.000809	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-0.001734	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-0.003044	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-0.001734	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-0.001927	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-0.000347	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-0.007168	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-0.000732	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-0.004008	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-0.000963	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-0.005549	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-0.000732	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-0.000886	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-0.007206	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	40	-0.001734	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-0.002736	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-30	-0.001697	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-20	0.000424	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-10	-0.003239	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	0	-0.000694	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	10	0.000116	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	20	-0.000733	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	30	-0.000193	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	40	-0.000887	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	50	-0.002391	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-30	-0.001427	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-20	-0.005515	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-10	0.000926	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	0	-0.004126	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	10	-0.005399	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	20	0.000617	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	30	-0.001427	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	40	-0.000270	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	50	-0.003818	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	-30	0.000000	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	-20	0.000887	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	-10	0.000116	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	0	0.001080	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	10	-0.001620	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	20	0.002430	±2.5	PASS

Band41	5MHz	64QAM	40620	25RB#0	NV	30	-0.002584	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	40	-0.004936	±2.5	PASS
Band41	5MHz	64QAM	40620	25RB#0	NV	50	-0.004049	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-30	-0.003124	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-20	-0.005438	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-10	-0.006749	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	0	-0.000617	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	10	-0.004512	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	20	-0.006363	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	30	-0.005862	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	40	-0.005245	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	50	-0.002083	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-30	-0.001388	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-20	-0.001427	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	-10	-0.006518	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	0	-0.006132	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	10	-0.002237	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	20	-0.004628	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	30	-0.006479	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	40	-0.008099	±2.5	PASS
Band41	10MHz	16QAM	40620	50RB#0	NV	50	-0.005013	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	-30	-0.004744	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	-20	-0.001504	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	-10	-0.002160	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	0	-0.000694	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	10	-0.007559	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	20	-0.006248	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	30	-0.004242	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	40	-0.005322	±2.5	PASS
Band41	10MHz	64QAM	40620	50RB#0	NV	50	-0.003394	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-30	-0.002700	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-20	-0.001813	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-10	0.000463	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	0	-0.000116	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	10	-0.001967	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	20	-0.003432	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	30	-0.002661	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	40	-0.003008	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	50	-0.003432	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-30	0.000733	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-20	-0.002584	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	-10	-0.003741	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	0	0.002314	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	10	-0.004936	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	20	0.001041	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	30	-0.003895	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	40	0.002584	±2.5	PASS
Band41	15MHz	16QAM	40620	75RB#0	NV	50	-0.001504	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	-30	-0.002160	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	-20	-0.000617	±2.5	PASS

Band41	15MHz	64QAM	40620	75RB#0	NV	-10	-0.006402	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	0	-0.004126	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	10	-0.001620	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	20	-0.002275	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	30	-0.001311	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	40	-0.004628	±2.5	PASS
Band41	15MHz	64QAM	40620	75RB#0	NV	50	-0.004435	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-0.004782	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-0.001311	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-0.001157	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.002005	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.005168	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-0.004551	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.000848	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-0.000656	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	0.001041	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-0.005476	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-0.004088	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-10	-0.000154	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-0.007405	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-0.001196	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-0.000733	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	-0.000733	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-0.001735	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	-0.004936	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-30	-0.001928	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-20	-0.005091	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-10	-0.003355	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	0	-0.001620	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	10	-0.000848	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	20	-0.005939	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	30	-0.006093	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	40	-0.005708	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	50	-0.006055	±2.5	PASS



## 13. APPENDIX G: RADIATED SPURIOUS EMISSION

### 13.1.1. Bottom Antenna

Band	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	ERP (dBm)	Limit (dBm)	Verdict
GSM850	MCH	GPRS	2509.5	V	4.60	40.1	2.1	-33.40	-13	PASS

Band	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
PCS1900	MCH	GPRS	3760	H	4.15	39	4.1	-30.75	-13	PASS

Band	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	ERP (dBm)	Limit (dBm)	Verdict
WCDMA850	MCH	QPSK	1673	H	-9.03	40.6	0.9	-50.88	-13	PASS

### LTE:

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	ERP (dBm)	Limit (dBm)	Verdict
Band5	10	MCH	QPSK	--	--	--	--	--	--	-13	PASS

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
Band7	20	MCH	QPSK	--	--	--	--	--	--	-25	PASS

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
Band38	20	MCH	QPSK	--	--	--	--	--	--	-25	PASS

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
Band41	20	MCH	QPSK	--	--	--	--	--	--	-25	PASS

Note: The emissions don't show in above result tables are more than 20dB below the limits, both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report.

### 13.1.2.Top Antenna

Band	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	ERP (dBm)	Limit (dBm)	Verdict
GSM850	MCH	GSM	2509.5	V	-7.10	40.1	2.1	-45.10	-13	PASS

Band	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
PCS1900	MCH	GSM	3760	H	-10.38	38.5	6.32	-42.56	-13	PASS

Band	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	ERP (dBm)	Limit (dBm)	Verdict
WCDMA Band V	MCH	QPSK	1673	H	-9.05	40.6	0.9	-50.90	-13	PASS

#### LTE:

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	ERP (dBm)	Limit (dBm)	Verdict
Band5	10	MCH	QPSK	1673	H	-11.66	40.6	0.9	-53.51	-13	PASS

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
Band7	20	MCH	QPSK	5070	H	-5.54	38.5	6.32	-37.72	-25	PASS

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
Band38	20	MCH	QPSK	5190	V	-10.44	38.5	6.32	-42.62	-25	PASS

Band	Bw. (MHz)	Ch.	Mode	Frequency (MHz)	Ant. (H/V)	Tx Ant. End (dBm)	Preamp (dB)	Atten	EIRP (dBm)	Limit (dBm)	Verdict
Band41	20	MCH	QPSK	5210	H	-10.52	38.5	6.32	-42.70	-25	PASS

Note: The emissions don't show in above result tables are more than 20dB below the limits, both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report.

## 14. APPENDIX H: PRODUCT EQUALITY DECLARATION

### Product Equality Declaration

We, GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. declare on our sole responsibility for the product of CPH2477 as below:

The major feature difference between CPH2477 (Latin-america Version,FCC ID:R9C-CPH2477) and CPH2477 (Full-band Version,FCC ID:R9C-22263) are:

1. The Full-band Version does not support the B2,B4,B6 and B19 frequency bands of WCDMA. And these four frequency bands are blank-posted on the motherboard.
2. The Full-band Version does not support the B2,B4,B12,B13,B17,B18,B19,B26 and B66 frequency bands of LTE FDD. And these nine frequency bands are blank-posted on the motherboard.
3. The Full-band Version LTE B28 has two duplexers, split into LET B28A and LTE B28B, and the Latin American version uses a full-band diplexer.
4. The Full-band Version supports LTE B20.

**5. Note:**

Full-band Version LTE Bands: B41(2496-2690MHz).

Latin-america Version LTE Bands: B41(2535-2655MHz).

Except listings above, the others are all the same.

-----End of Report -----