



Band5-4182-1000~10000MHz-PASS

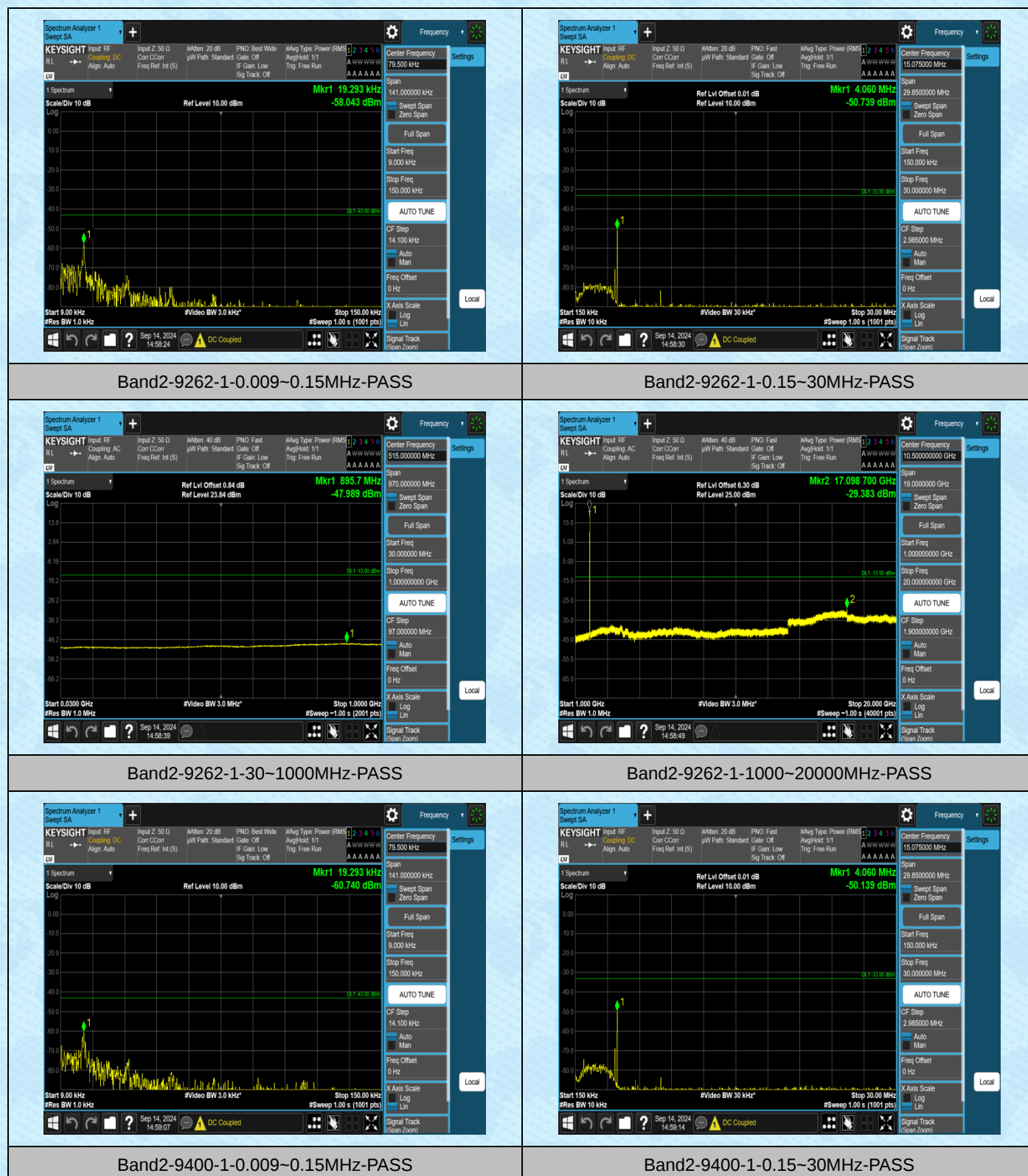


Band5-4233-0.15~30MHz-PASS



Band5-4233-1000~10000MHz-PASS

Test Graphs(HSDPA)





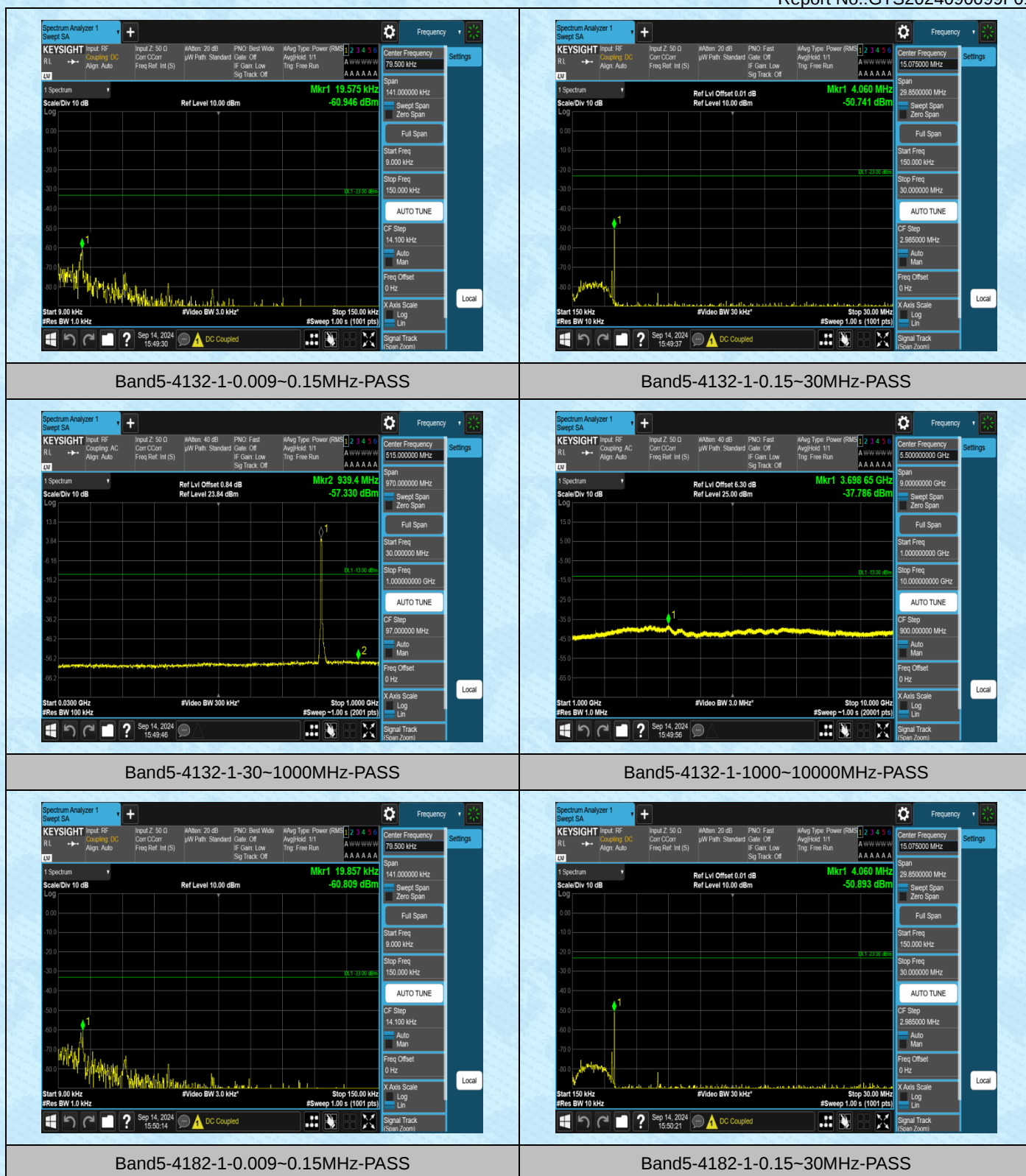
Band2-9400-1-1000~20000MHz-PASS

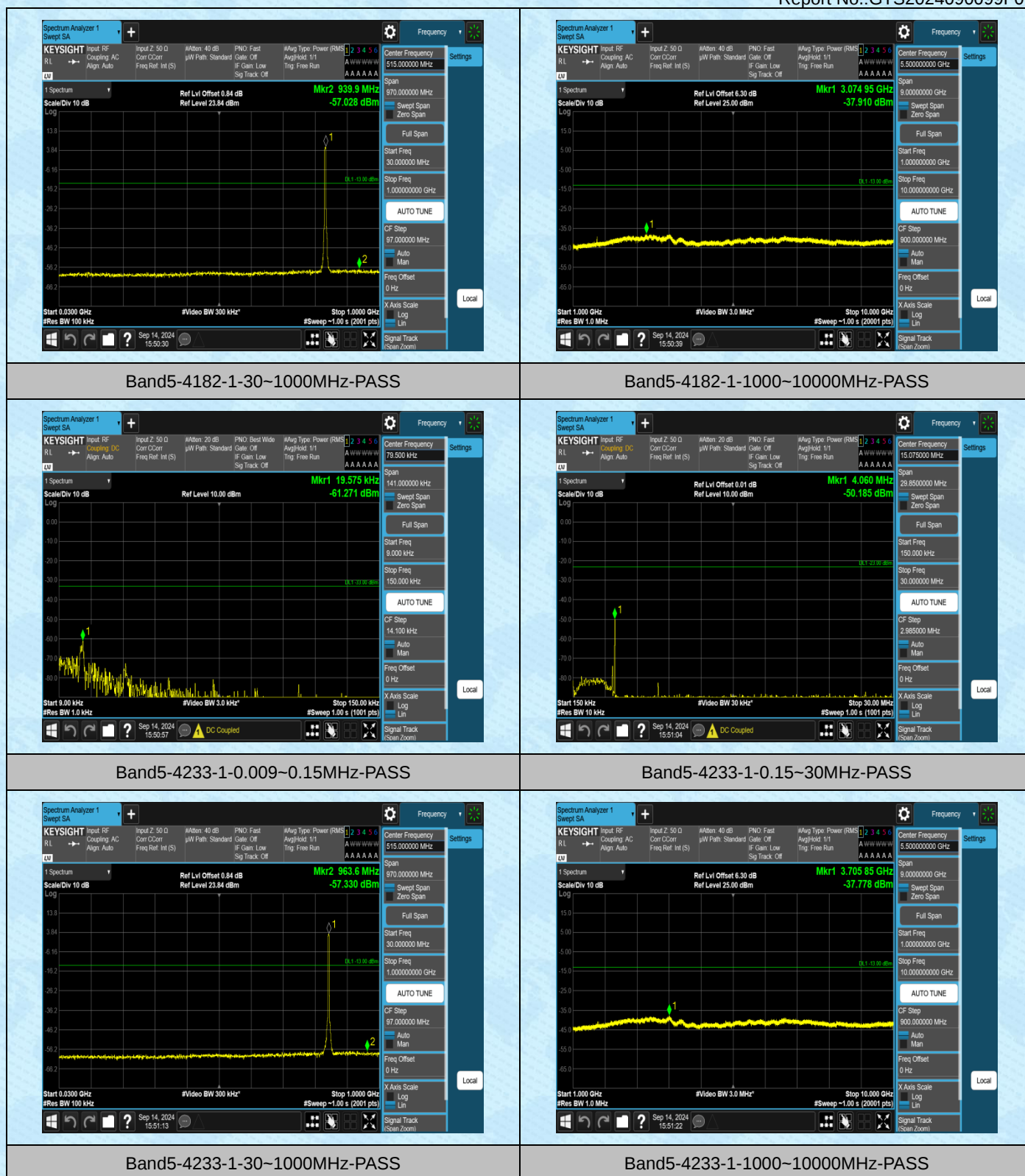


Band2-9538-1-0.15~30MHz-PASS

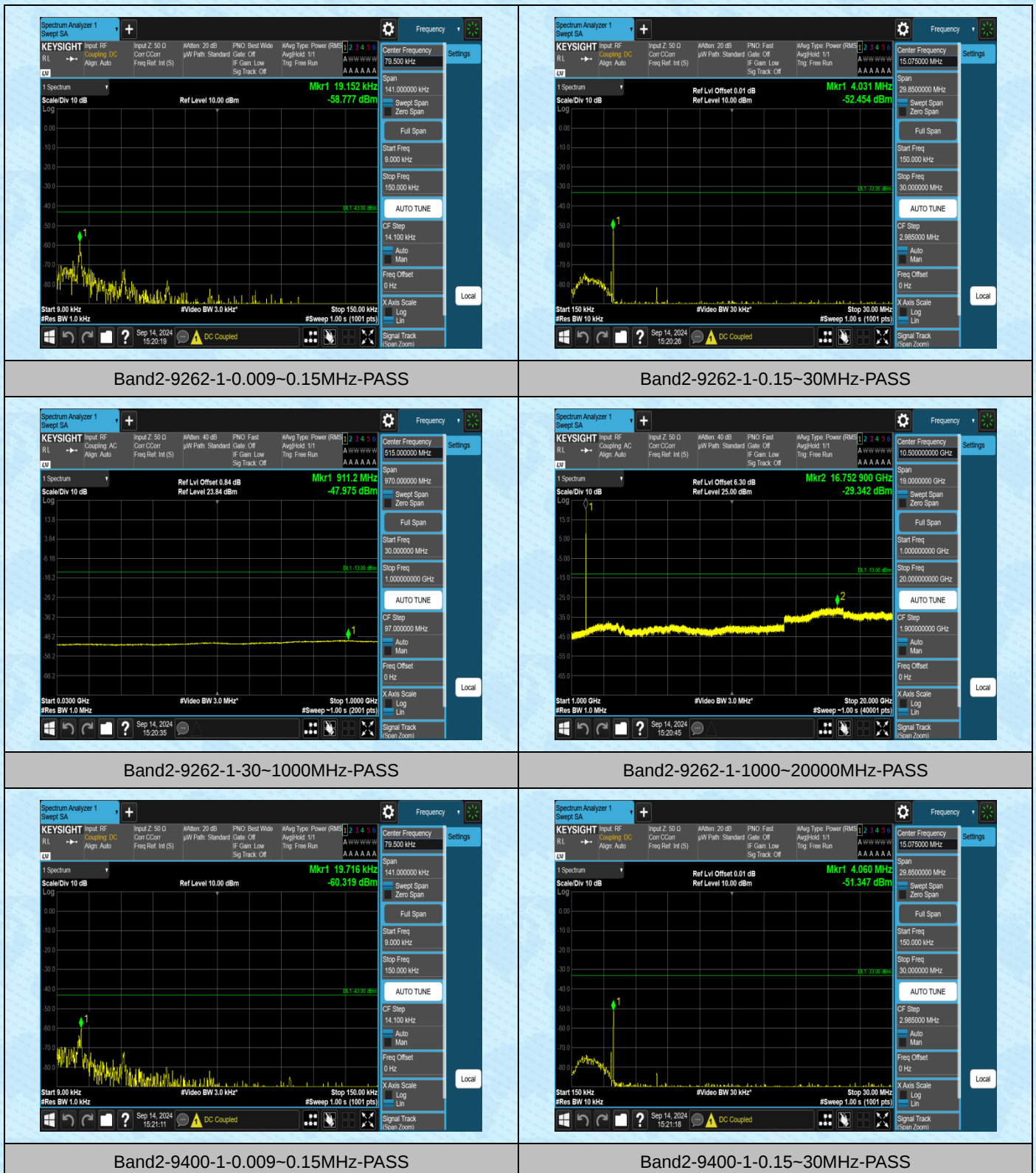


Band2-9538-1-1000~20000MHz-PASS





Test Graphs(HSUPA)





Band2-9400-1-30~1000MHz-PASS



Band2-9400-1-1000~20000MHz-PASS



Band2-9538-1-0.009~0.15MHz-PASS



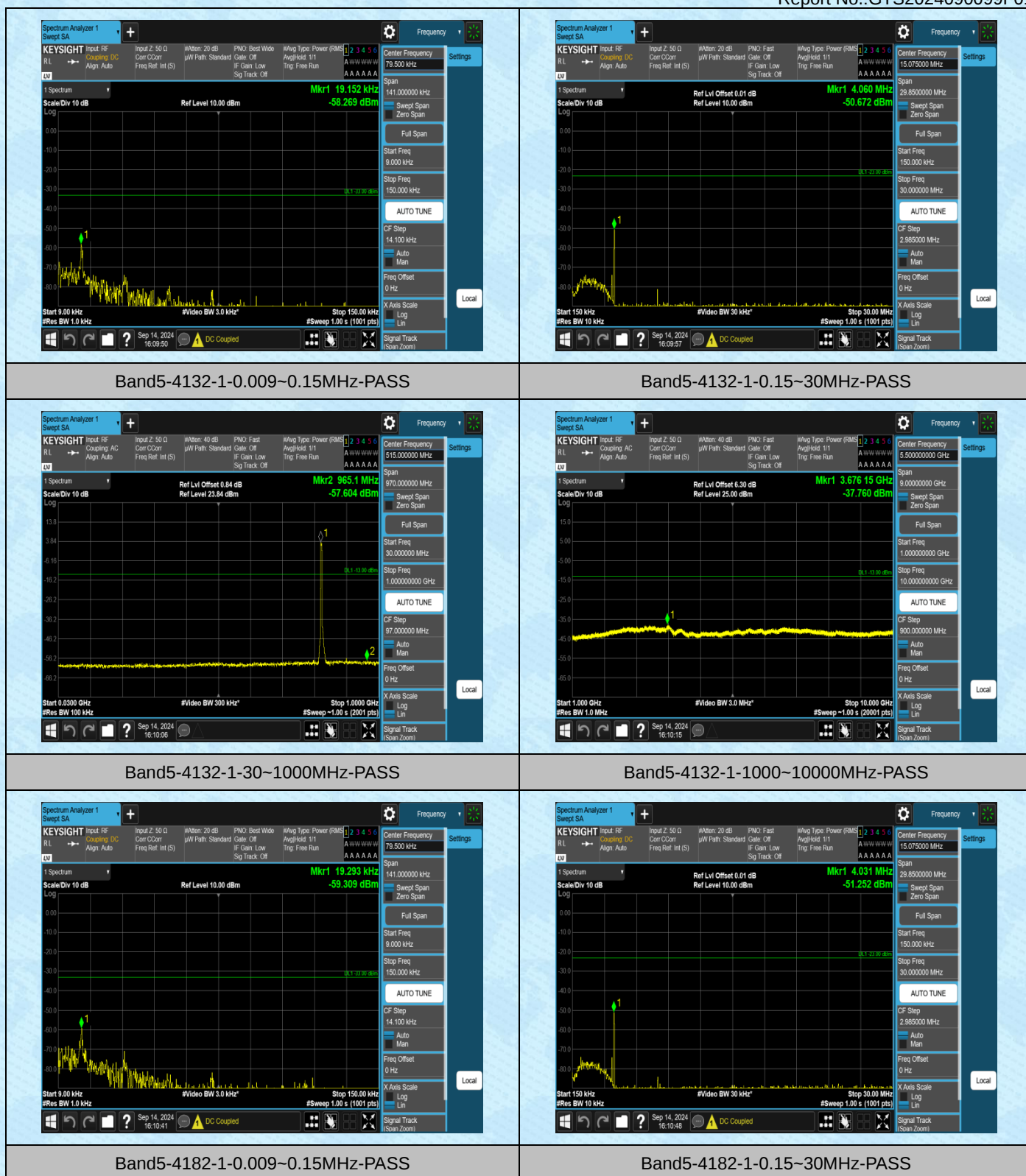
Band2-9538-1-0.15~30MHz-PASS

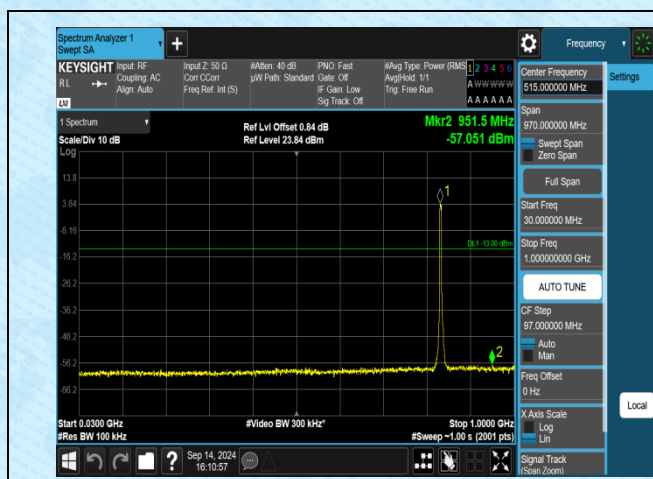


Band2-9538-1-30~1000MHz-PASS



Band2-9538-1-1000~20000MHz-PASS





Band5-4182-1-30~1000MHz-PASS



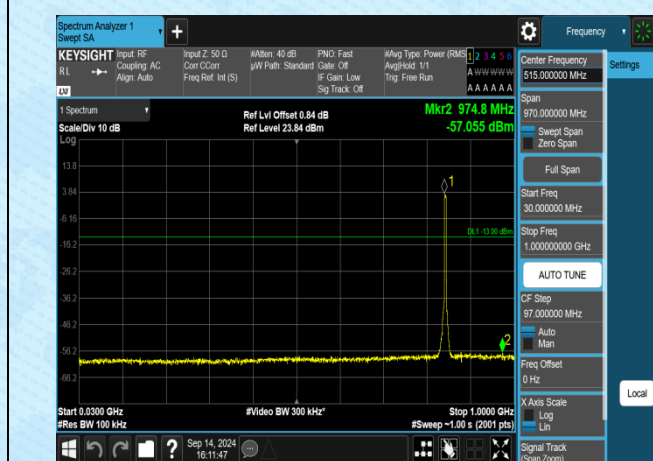
Band5-4182-1-1000~10000MHz-PASS



Band5-4233-1-0.009~0.15MHz-PASS



Band5-4233-1-0.15~30MHz-PASS



Band5-4233-1-30~1000MHz-PASS



Band5-4233-1-1000~10000MHz-PASS

AppendixF:Frequency Stability

Test Result(WCDMA)

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VN	NT	3.82	0.002062	±2.5	PASS
Band2	9262	VL	NT	-8.18	-0.004416	±2.5	PASS
Band2	9262	VH	NT	-4.96	-0.002678	±2.5	PASS
Band2	9400	VN	NT	-3.81	-0.002027	±2.5	PASS
Band2	9400	VL	NT	-7.34	-0.003904	±2.5	PASS
Band2	9400	VH	NT	9.63	0.005122	±2.5	PASS
Band2	9538	VN	NT	0.19	0.000100	±2.5	PASS
Band2	9538	VL	NT	-0.73	-0.000383	±2.5	PASS
Band2	9538	VH	NT	-6.55	-0.003434	±2.5	PASS
Band5	4132	VN	NT	-0.06	-0.000073	±2.5	PASS
Band5	4132	VL	NT	-5.00	-0.006050	±2.5	PASS
Band5	4132	VH	NT	-1.06	-0.001283	±2.5	PASS
Band5	4182	VN	NT	-0.71	-0.000849	±2.5	PASS
Band5	4182	VL	NT	2.27	0.002714	±2.5	PASS
Band5	4182	VH	NT	-2.81	-0.003360	±2.5	PASS
Band5	4233	VN	NT	2.29	0.002705	±2.5	PASS
Band5	4233	VL	NT	-4.49	-0.005304	±2.5	PASS
Band5	4233	VH	NT	-2.60	-0.003071	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	5.37	0.002899	±2.5	PASS
Band2	9262	NV	-20	3.77	0.002035	±2.5	PASS
Band2	9262	NV	-10	-9.88	-0.005334	±2.5	PASS
Band2	9262	NV	0	-1.14	-0.000615	±2.5	PASS
Band2	9262	NV	10	-1.57	-0.000848	±2.5	PASS
Band2	9262	NV	20	-1.57	-0.000848	±2.5	PASS
Band2	9262	NV	30	-4.62	-0.002494	±2.5	PASS
Band2	9262	NV	40	-3.57	-0.001927	±2.5	PASS
Band2	9262	NV	50	-8.84	-0.004772	±2.5	PASS
Band2	9400	NV	-30	6.92	0.003681	±2.5	PASS
Band2	9400	NV	-20	8.65	0.004601	±2.5	PASS
Band2	9400	NV	-10	-0.44	-0.000234	±2.5	PASS
Band2	9400	NV	0	4.71	0.002505	±2.5	PASS
Band2	9400	NV	10	-3.34	-0.001777	±2.5	PASS
Band2	9400	NV	20	0.68	0.000362	±2.5	PASS
Band2	9400	NV	30	-9.11	-0.004846	±2.5	PASS
Band2	9400	NV	40	-2.76	-0.001468	±2.5	PASS
Band2	9400	NV	50	-3.53	-0.001878	±2.5	PASS
Band2	9538	NV	-30	3.58	0.001877	±2.5	PASS
Band2	9538	NV	-20	-7.65	-0.004010	±2.5	PASS
Band2	9538	NV	-10	-3.57	-0.001871	±2.5	PASS
Band2	9538	NV	0	-6.97	-0.003654	±2.5	PASS
Band2	9538	NV	10	-2.18	-0.001143	±2.5	PASS
Band2	9538	NV	20	-1.92	-0.001007	±2.5	PASS
Band2	9538	NV	30	-6.04	-0.003166	±2.5	PASS
Band2	9538	NV	40	-3.55	-0.001861	±2.5	PASS
Band2	9538	NV	50	-5.88	-0.003082	±2.5	PASS
Band5	4132	NV	-30	3.91	0.004731	±2.5	PASS
Band5	4132	NV	-20	-5.64	-0.006825	±2.5	PASS
Band5	4132	NV	-10	-6.59	-0.007974	±2.5	PASS
Band5	4132	NV	0	0.83	0.001004	±2.5	PASS
Band5	4132	NV	10	-0.63	-0.000762	±2.5	PASS
Band5	4132	NV	20	3.10	0.003751	±2.5	PASS
Band5	4132	NV	30	-2.76	-0.003340	±2.5	PASS
Band5	4132	NV	40	-1.07	-0.001295	±2.5	PASS

Band5	4132	NV	50	2.58	0.003122	±2.5	PASS
Band5	4182	NV	-30	-3.40	-0.004065	±2.5	PASS
Band5	4182	NV	-20	-7.13	-0.008525	±2.5	PASS
Band5	4182	NV	-10	-7.78	-0.009302	±2.5	PASS
Band5	4182	NV	0	-4.36	-0.005213	±2.5	PASS
Band5	4182	NV	10	-2.70	-0.003228	±2.5	PASS
Band5	4182	NV	20	-8.15	-0.009744	±2.5	PASS
Band5	4182	NV	30	-3.43	-0.004101	±2.5	PASS
Band5	4182	NV	40	-9.00	-0.010760	±2.5	PASS
Band5	4182	NV	50	-3.57	-0.004268	±2.5	PASS
Band5	4233	NV	-30	-6.42	-0.007583	±2.5	PASS
Band5	4233	NV	-20	1.87	0.002209	±2.5	PASS
Band5	4233	NV	-10	3.18	0.003756	±2.5	PASS
Band5	4233	NV	0	0.75	0.000886	±2.5	PASS
Band5	4233	NV	10	-4.16	-0.004914	±2.5	PASS
Band5	4233	NV	20	-0.39	-0.000461	±2.5	PASS
Band5	4233	NV	30	-5.68	-0.006709	±2.5	PASS
Band5	4233	NV	40	-7.65	-0.009036	±2.5	PASS
Band5	4233	NV	50	-4.69	-0.005540	±2.5	PASS

Test Result(HSDPA)

Voltage								
Band	Channel	SubT est	Voltage (Vdc)	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	1	VN	NT	-6.09	-0.003288	±2.5	PASS
Band2	9262	1	VL	NT	-1.18	-0.000637	±2.5	PASS
Band2	9262	1	VH	NT	-11.45	-0.006181	±2.5	PASS
Band2	9400	1	VN	NT	0.03	0.000016	±2.5	PASS
Band2	9400	1	VL	NT	2.40	0.001277	±2.5	PASS
Band2	9400	1	VH	NT	5.65	0.003005	±2.5	PASS
Band2	9538	1	VN	NT	7.78	0.004078	±2.5	PASS
Band2	9538	1	VL	NT	6.64	0.003481	±2.5	PASS
Band2	9538	1	VH	NT	-0.50	-0.000262	±2.5	PASS
Band5	4132	1	VN	NT	-0.11	-0.000133	±2.5	PASS
Band5	4132	1	VL	NT	1.80	0.002178	±2.5	PASS
Band5	4132	1	VH	NT	-2.73	-0.003303	±2.5	PASS
Band5	4182	1	VN	NT	-1.03	-0.001231	±2.5	PASS
Band5	4182	1	VL	NT	-5.46	-0.006528	±2.5	PASS
Band5	4182	1	VH	NT	3.33	0.003981	±2.5	PASS
Band5	4233	1	VN	NT	-0.69	-0.000815	±2.5	PASS
Band5	4233	1	VL	NT	-0.57	-0.000673	±2.5	PASS
Band5	4233	1	VH	NT	-1.82	-0.002150	±2.5	PASS

Temperature								
Band	Channel	SubT est	Voltage (Vdc)	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	1	NV	-30	3.50	0.001889	±2.5	PASS
Band2	9262	1	NV	-20	-5.36	-0.002894	±2.5	PASS
Band2	9262	1	NV	-10	-2.35	-0.001269	±2.5	PASS
Band2	9262	1	NV	0	-7.71	-0.004162	±2.5	PASS
Band2	9262	1	NV	10	2.31	0.001247	±2.5	PASS
Band2	9262	1	NV	20	-7.60	-0.004103	±2.5	PASS
Band2	9262	1	NV	30	-3.09	-0.001668	±2.5	PASS
Band2	9262	1	NV	40	3.50	0.001889	±2.5	PASS
Band2	9262	1	NV	50	-1.71	-0.000923	±2.5	PASS
Band2	9400	1	NV	-30	-4.36	-0.002319	±2.5	PASS
Band2	9400	1	NV	-20	2.42	0.001287	±2.5	PASS
Band2	9400	1	NV	-10	-9.63	-0.005122	±2.5	PASS
Band2	9400	1	NV	0	2.62	0.001394	±2.5	PASS
Band2	9400	1	NV	10	2.43	0.001293	±2.5	PASS
Band2	9400	1	NV	20	-2.40	-0.001277	±2.5	PASS
Band2	9400	1	NV	30	2.44	0.001298	±2.5	PASS
Band2	9400	1	NV	40	-2.91	-0.001548	±2.5	PASS
Band2	9400	1	NV	50	2.78	0.001479	±2.5	PASS
Band2	9538	1	NV	-30	8.29	0.004346	±2.5	PASS
Band2	9538	1	NV	-20	-7.98	-0.004183	±2.5	PASS
Band2	9538	1	NV	-10	-1.72	-0.000902	±2.5	PASS
Band2	9538	1	NV	0	-1.07	-0.000561	±2.5	PASS
Band2	9538	1	NV	10	-13.65	-0.007156	±2.5	PASS
Band2	9538	1	NV	20	11.47	0.006013	±2.5	PASS
Band2	9538	1	NV	30	7.04	0.003691	±2.5	PASS
Band2	9538	1	NV	40	6.71	0.003518	±2.5	PASS
Band2	9538	1	NV	50	-2.98	-0.001562	±2.5	PASS
Band5	4132	1	NV	-30	-4.15	-0.005022	±2.5	PASS
Band5	4132	1	NV	-20	-6.51	-0.007878	±2.5	PASS
Band5	4132	1	NV	-10	-4.46	-0.005397	±2.5	PASS
Band5	4132	1	NV	0	-1.87	-0.002263	±2.5	PASS
Band5	4132	1	NV	10	-2.89	-0.003497	±2.5	PASS
Band5	4132	1	NV	20	0.70	0.000847	±2.5	PASS
Band5	4132	1	NV	30	4.81	0.005820	±2.5	PASS

Band5	4132	1	NV	40	-9.74	-0.011786	±2.5	PASS
Band5	4132	1	NV	50	1.09	0.001319	±2.5	PASS
Band5	4182	1	NV	-30	0.46	0.000550	±2.5	PASS
Band5	4182	1	NV	-20	-4.58	-0.005476	±2.5	PASS
Band5	4182	1	NV	-10	-0.77	-0.000921	±2.5	PASS
Band5	4182	1	NV	0	-0.92	-0.001100	±2.5	PASS
Band5	4182	1	NV	10	-6.09	-0.007281	±2.5	PASS
Band5	4182	1	NV	20	-0.39	-0.000466	±2.5	PASS
Band5	4182	1	NV	30	-3.93	-0.004699	±2.5	PASS
Band5	4182	1	NV	40	0.26	0.000311	±2.5	PASS
Band5	4182	1	NV	50	-7.98	-0.009541	±2.5	PASS
Band5	4233	1	NV	-30	2.32	0.002740	±2.5	PASS
Band5	4233	1	NV	-20	-8.84	-0.010442	±2.5	PASS
Band5	4233	1	NV	-10	1.93	0.002280	±2.5	PASS
Band5	4233	1	NV	0	4.55	0.005374	±2.5	PASS
Band5	4233	1	NV	10	2.49	0.002941	±2.5	PASS
Band5	4233	1	NV	20	-0.88	-0.001039	±2.5	PASS
Band5	4233	1	NV	30	2.70	0.003189	±2.5	PASS
Band5	4233	1	NV	40	5.31	0.006272	±2.5	PASS
Band5	4233	1	NV	50	2.45	0.002894	±2.5	PASS

Test Result(HSUPA)

Voltage								
Band	Channel	SubT est	Voltage (Vdc)	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	1	VN	NT	0.98	0.000529	±2.5	PASS
Band2	9262	1	VL	NT	-2.18	-0.001177	±2.5	PASS
Band2	9262	1	VH	NT	5.88	0.003174	±2.5	PASS
Band2	9400	1	VN	NT	-8.20	-0.004362	±2.5	PASS
Band2	9400	1	VL	NT	-5.87	-0.003122	±2.5	PASS
Band2	9400	1	VH	NT	-5.78	-0.003074	±2.5	PASS
Band2	9538	1	VN	NT	-3.20	-0.001678	±2.5	PASS
Band2	9538	1	VL	NT	1.73	0.000907	±2.5	PASS
Band2	9538	1	VH	NT	2.88	0.001510	±2.5	PASS
Band5	4132	1	VN	NT	-4.51	-0.005457	±2.5	PASS
Band5	4132	1	VL	NT	1.44	0.001742	±2.5	PASS
Band5	4132	1	VH	NT	-2.78	-0.003364	±2.5	PASS
Band5	4182	1	VN	NT	-5.20	-0.006217	±2.5	PASS
Band5	4182	1	VL	NT	-2.02	-0.002415	±2.5	PASS
Band5	4182	1	VH	NT	-2.32	-0.002774	±2.5	PASS
Band5	4233	1	VN	NT	-0.88	-0.001039	±2.5	PASS
Band5	4233	1	VL	NT	0.51	0.000602	±2.5	PASS
Band5	4233	1	VH	NT	-0.57	-0.000673	±2.5	PASS

Temperature								
Band	Channel	SubT est	Voltage (Vdc)	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	1	NV	-30	-1.44	-0.000777	±2.5	PASS
Band2	9262	1	NV	-20	-0.11	-0.000059	±2.5	PASS
Band2	9262	1	NV	-10	4.05	0.002186	±2.5	PASS
Band2	9262	1	NV	0	12.45	0.006721	±2.5	PASS
Band2	9262	1	NV	10	-4.69	-0.002532	±2.5	PASS
Band2	9262	1	NV	20	10.77	0.005814	±2.5	PASS
Band2	9262	1	NV	30	-8.31	-0.004486	±2.5	PASS
Band2	9262	1	NV	40	1.99	0.001074	±2.5	PASS
Band2	9262	1	NV	50	-2.84	-0.001533	±2.5	PASS
Band2	9400	1	NV	-30	-1.75	-0.000931	±2.5	PASS
Band2	9400	1	NV	-20	8.63	0.004590	±2.5	PASS
Band2	9400	1	NV	-10	-4.41	-0.002346	±2.5	PASS
Band2	9400	1	NV	0	-3.65	-0.001941	±2.5	PASS
Band2	9400	1	NV	10	-6.64	-0.003532	±2.5	PASS
Band2	9400	1	NV	20	-8.67	-0.004612	±2.5	PASS
Band2	9400	1	NV	30	-1.09	-0.000580	±2.5	PASS
Band2	9400	1	NV	40	1.87	0.000995	±2.5	PASS
Band2	9400	1	NV	50	1.34	0.000713	±2.5	PASS
Band2	9538	1	NV	-30	9.66	0.005064	±2.5	PASS
Band2	9538	1	NV	-20	-3.20	-0.001678	±2.5	PASS
Band2	9538	1	NV	-10	-1.13	-0.000592	±2.5	PASS
Band2	9538	1	NV	0	0.19	0.000100	±2.5	PASS
Band2	9538	1	NV	10	-1.60	-0.000839	±2.5	PASS
Band2	9538	1	NV	20	-1.29	-0.000676	±2.5	PASS
Band2	9538	1	NV	30	-11.23	-0.005887	±2.5	PASS
Band2	9538	1	NV	40	3.49	0.001830	±2.5	PASS
Band2	9538	1	NV	50	-1.70	-0.000891	±2.5	PASS
Band5	4132	1	NV	-30	-2.46	-0.002977	±2.5	PASS
Band5	4132	1	NV	-20	-7.27	-0.008797	±2.5	PASS
Band5	4132	1	NV	-10	-6.65	-0.008047	±2.5	PASS
Band5	4132	1	NV	0	-2.42	-0.002928	±2.5	PASS
Band5	4132	1	NV	10	-1.07	-0.001295	±2.5	PASS
Band5	4132	1	NV	20	-3.25	-0.003933	±2.5	PASS
Band5	4132	1	NV	30	-0.95	-0.001150	±2.5	PASS

Band5	4132	1	NV	40	-1.65	-0.001997	±2.5	PASS
Band5	4132	1	NV	50	-2.24	-0.002711	±2.5	PASS
Band5	4182	1	NV	-30	0.89	0.001064	±2.5	PASS
Band5	4182	1	NV	-20	1.51	0.001805	±2.5	PASS
Band5	4182	1	NV	-10	-5.88	-0.007030	±2.5	PASS
Band5	4182	1	NV	0	-6.32	-0.007556	±2.5	PASS
Band5	4182	1	NV	10	0.38	0.000454	±2.5	PASS
Band5	4182	1	NV	20	-0.11	-0.000132	±2.5	PASS
Band5	4182	1	NV	30	-1.27	-0.001518	±2.5	PASS
Band5	4182	1	NV	40	-1.17	-0.001399	±2.5	PASS
Band5	4182	1	NV	50	0.67	0.000801	±2.5	PASS
Band5	4233	1	NV	-30	-3.86	-0.004559	±2.5	PASS
Band5	4233	1	NV	-20	-4.01	-0.004737	±2.5	PASS
Band5	4233	1	NV	-10	-5.09	-0.006012	±2.5	PASS
Band5	4233	1	NV	0	-6.66	-0.007867	±2.5	PASS
Band5	4233	1	NV	10	-1.79	-0.002114	±2.5	PASS
Band5	4233	1	NV	20	6.15	0.007264	±2.5	PASS
Band5	4233	1	NV	30	-0.89	-0.001051	±2.5	PASS
Band5	4233	1	NV	40	-0.36	-0.000425	±2.5	PASS
Band5	4233	1	NV	50	-1.02	-0.001205	±2.5	PASS

AppendixG: Modulation characteristics

Test Result

Band	Channel	Result	Limit	Verdict
Band2	9262	PASS	---	PASS
Band2	9400	PASS	---	PASS
Band2	9538	PASS	---	PASS
Band5	4132	PASS	---	PASS
Band5	4182	PASS	---	PASS
Band5	4233	PASS	---	PASS

Test Graphs

