

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	Voice	9262	23.95	23.05	33	PASS
Band2	TestMode	9262	23.94	23.04	33	PASS
Band2	TestMode	9400	24.02	23.12	33	PASS
Band2	Voice	9400	23.97	23.07	33	PASS
Band2	TestMode	9538	24.09	23.19	33	PASS
Band2	Voice	9538	24.03	23.13	33	PASS
Band4	Voice	1312	23.69	21.29	30	PASS
Band4	TestMode	1312	23.70	21.30	30	PASS
Band4	Voice	1413	23.71	21.31	30	PASS
Band4	TestMode	1413	23.79	21.39	30	PASS
Band4	TestMode	1513	23.87	21.47	30	PASS
Band4	Voice	1513	23.83	21.43	30	PASS
Band5	Voice	4132	24.10	19.05	38.5	PASS
Band5	TestMode	4132	24.22	19.17	38.5	PASS
Band5	TestMode	4183	24.32	19.27	38.5	PASS
Band5	Voice	4183	24.22	19.17	38.5	PASS
Band5	Voice	4233	24.09	19.04	38.5	PASS
Band5	TestMode	4233	24.12	19.07	38.5	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.96	22.06	33	PASS
Band2	9262	2	22.40	21.50	33	PASS
Band2	9262	3	22.37	21.47	33	PASS
Band2	9262	4	22.39	21.49	33	PASS
Band2	9400	1	23.03	22.13	33	PASS
Band2	9400	2	22.45	21.55	33	PASS
Band2	9400	3	22.48	21.58	33	PASS
Band2	9400	4	22.43	21.53	33	PASS
Band2	9538	1	23.07	22.17	33	PASS
Band2	9538	2	22.49	21.59	33	PASS
Band2	9538	3	22.51	21.61	33	PASS
Band2	9538	4	22.54	21.64	33	PASS

Band4	1312	1	22.73	20.33	30	PASS
Band4	1312	2	22.19	19.79	30	PASS
Band4	1312	3	22.22	19.82	30	PASS
Band4	1312	4	22.20	19.80	30	PASS
Band4	1413	1	22.72	20.32	30	PASS
Band4	1413	2	22.20	19.80	30	PASS
Band4	1413	3	22.23	19.83	30	PASS
Band4	1413	4	22.21	19.81	30	PASS
Band4	1513	1	22.82	20.42	30	PASS
Band4	1513	2	22.33	19.93	30	PASS
Band4	1513	3	22.32	19.92	30	PASS
Band4	1513	4	22.27	19.87	30	PASS
Band5	4132	1	23.26	18.21	38.5	PASS
Band5	4132	2	22.73	17.68	38.5	PASS
Band5	4132	3	22.72	17.67	38.5	PASS
Band5	4132	4	22.70	17.65	38.5	PASS
Band5	4183	1	23.33	18.28	38.5	PASS
Band5	4183	2	22.78	17.73	38.5	PASS
Band5	4183	3	22.80	17.75	38.5	PASS
Band5	4183	4	22.75	17.7	38.5	PASS
Band5	4233	1	23.12	18.07	38.5	PASS
Band5	4233	2	22.61	17.56	38.5	PASS
Band5	4233	3	22.57	17.52	38.5	PASS
Band5	4233	4	22.59	17.54	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.96	20.06	33	PASS
Band2	9262	2	21.43	20.53	33	PASS
Band2	9262	3	21.93	21.03	33	PASS
Band2	9262	4	20.96	20.06	33	PASS
Band2	9262	5	22.93	22.03	33	PASS
Band2	9400	1	21.02	20.12	33	PASS
Band2	9400	2	21.45	20.55	33	PASS
Band2	9400	3	21.98	21.08	33	PASS
Band2	9400	4	21.04	20.14	33	PASS
Band2	9400	5	23.00	22.10	33	PASS
Band2	9538	1	21.04	20.14	33	PASS
Band2	9538	2	21.53	20.63	33	PASS
Band2	9538	3	22.02	21.12	33	PASS

Band2	9538	4	21.10	20.20	33	PASS
Band2	9538	5	23.01	22.11	33	PASS
Band4	1312	1	20.78	18.38	30	PASS
Band4	1312	2	21.27	18.87	30	PASS
Band4	1312	3	21.76	19.36	30	PASS
Band4	1312	4	20.79	18.39	30	PASS
Band4	1312	5	22.77	20.37	30	PASS
Band4	1413	1	20.80	18.40	30	PASS
Band4	1413	2	21.28	18.88	30	PASS
Band4	1413	3	21.77	19.37	30	PASS
Band4	1413	4	20.82	18.42	30	PASS
Band4	1413	5	22.77	20.37	30	PASS
Band4	1513	1	20.87	18.47	30	PASS
Band4	1513	2	21.36	18.96	30	PASS
Band4	1513	3	21.80	19.40	30	PASS
Band4	1513	4	20.85	18.45	30	PASS
Band4	1513	5	22.83	20.43	30	PASS
Band5	4132	1	21.31	16.26	38.5	PASS
Band5	4132	2	21.74	16.69	38.5	PASS
Band5	4132	3	22.26	17.21	38.5	PASS
Band5	4132	4	21.34	16.29	38.5	PASS
Band5	4132	5	23.27	18.22	38.5	PASS
Band5	4183	1	21.38	16.33	38.5	PASS
Band5	4183	2	21.80	16.75	38.5	PASS
Band5	4183	3	22.32	17.27	38.5	PASS
Band5	4183	4	21.41	16.36	38.5	PASS
Band5	4183	5	23.34	18.29	38.5	PASS
Band5	4233	1	21.18	16.13	38.5	PASS
Band5	4233	2	21.62	16.57	38.5	PASS
Band5	4233	3	22.09	17.04	38.5	PASS
Band5	4233	4	21.21	16.16	38.5	PASS
Band5	4233	5	23.15	18.1	38.5	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For Band2&4)
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$. (For Band5)

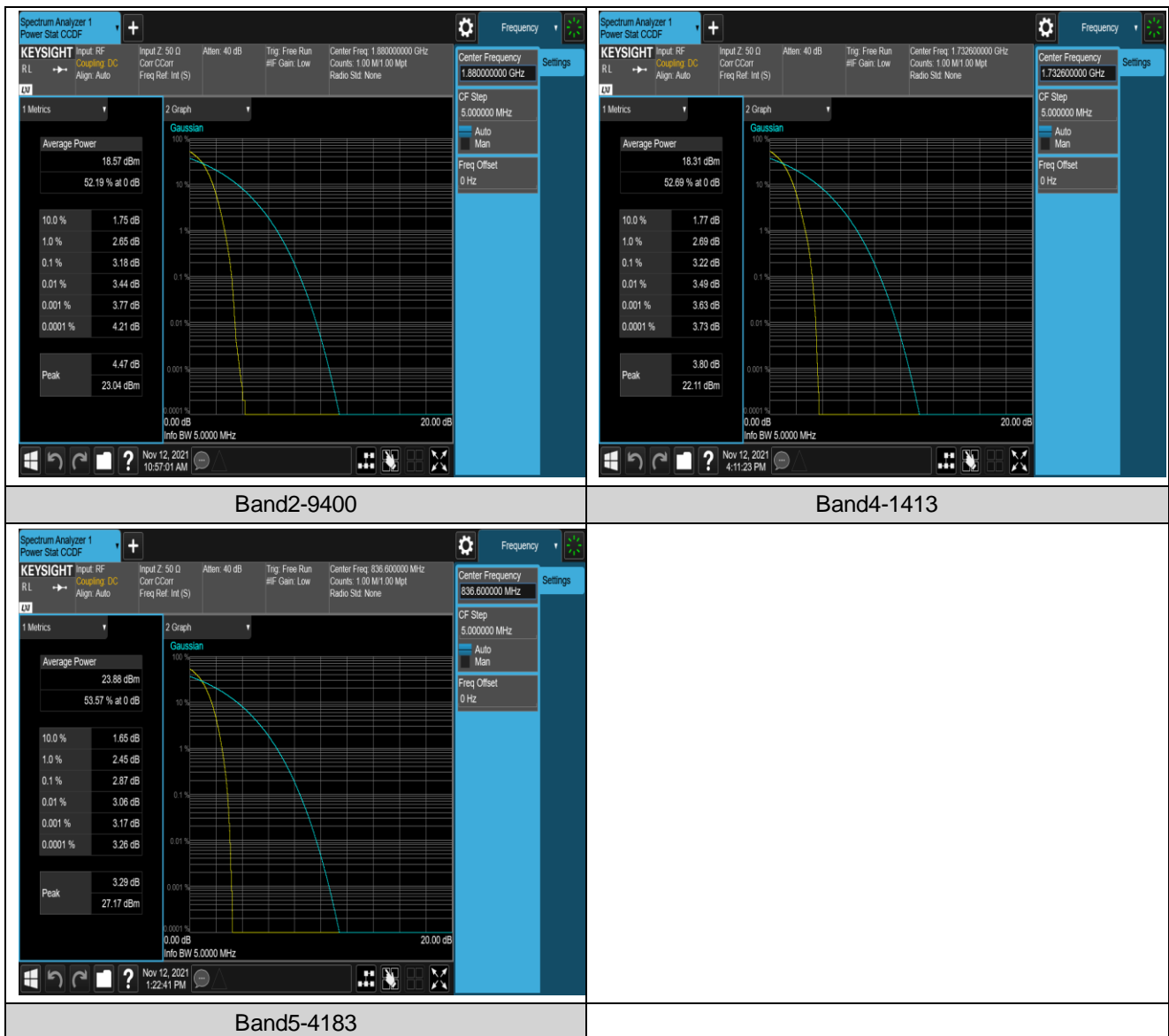
Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.18	13	PASS
Band4	1413	3.22	13	PASS
Band5	4183	2.87	13	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

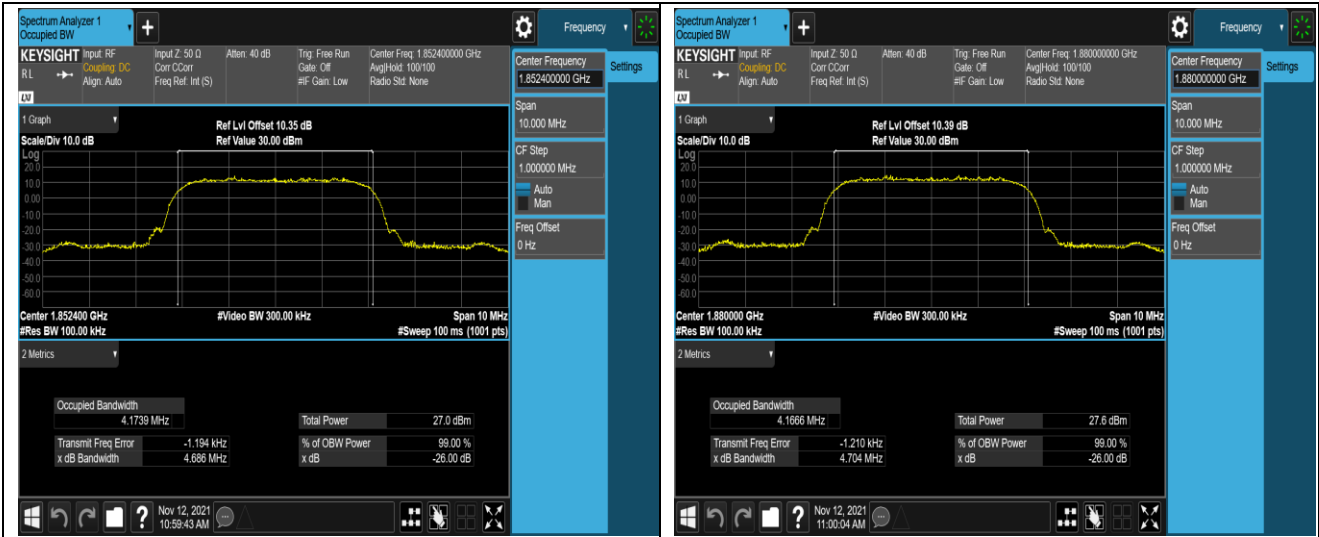
Test Graphs(WCDMA)



Appendix C: 26dB Bandwidth and Occupied Bandwidth**Test Result(WCDMA)**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1739	4.686	---	PASS
Band2	9400	4.1666	4.704	---	PASS
Band2	9538	4.1678	4.727	---	PASS
Band4	1312	4.1702	4.710	---	PASS
Band4	1413	4.1728	4.706	---	PASS
Band4	1513	4.1721	4.725	---	PASS
Band5	4132	4.1644	4.706	---	PASS
Band5	4183	4.1825	6.005	---	PASS
Band5	4233	4.1554	4.725	---	PASS

Test Graphs(WCDMA)



Band2-9262-4.686

Band2-9400-4.704



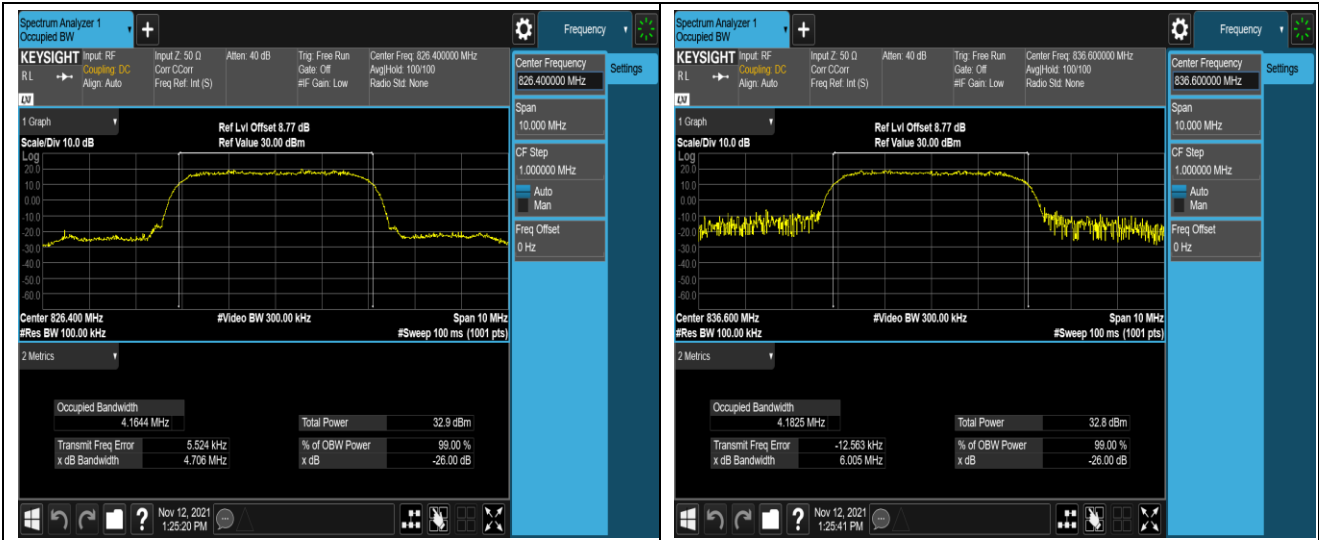
Band2-9538-4.727

Band4-1312-4.710



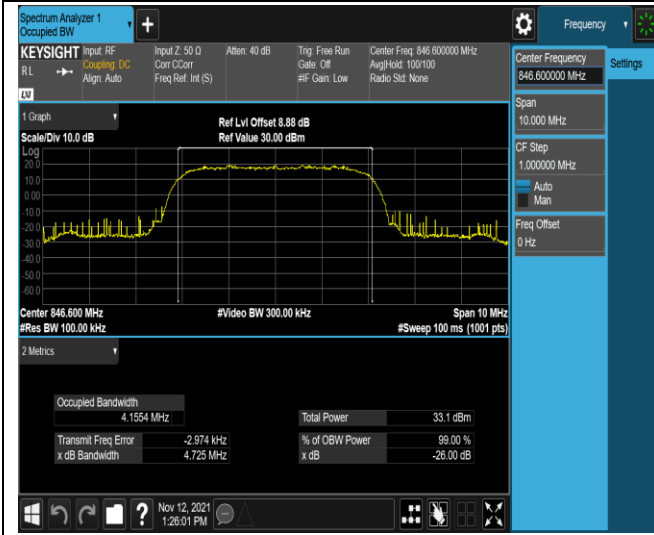
Band4-1413-4.706

Band4-1513-4.725



Band5-4132-4.706

Band5-4183-6.005



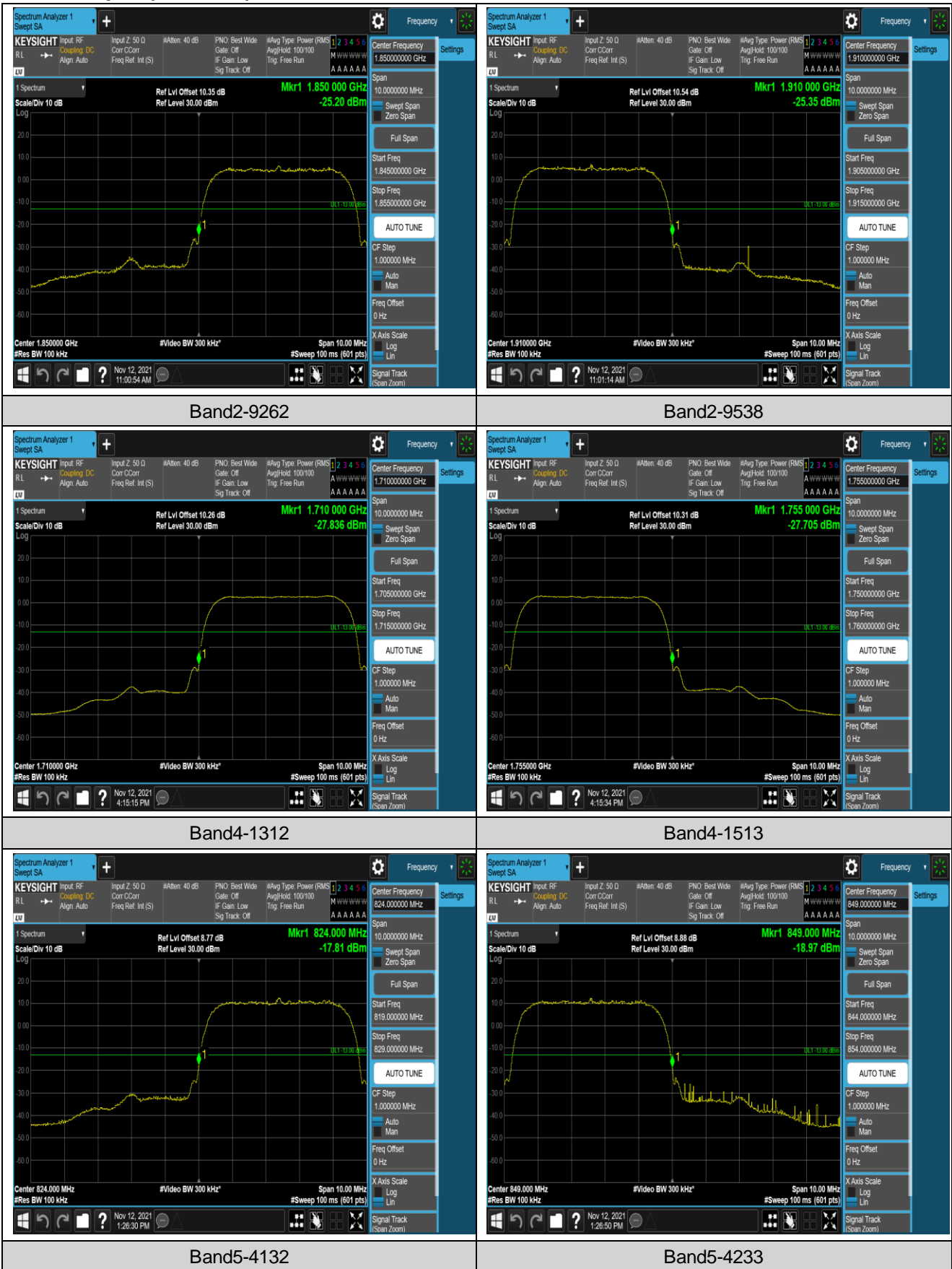
Band5-4233-4.725

AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-25.20	-13	PASS
Band2	9538	1910.00	-25.35	-13	PASS
Band4	1312	1710.00	-27.84	-13	PASS
Band4	1513	1755.00	-27.71	-13	PASS
Band5	4132	824.00	-17.81	-13	PASS
Band5	4233	849.00	-18.97	-13	PASS

Test Graphs(WCDMA)

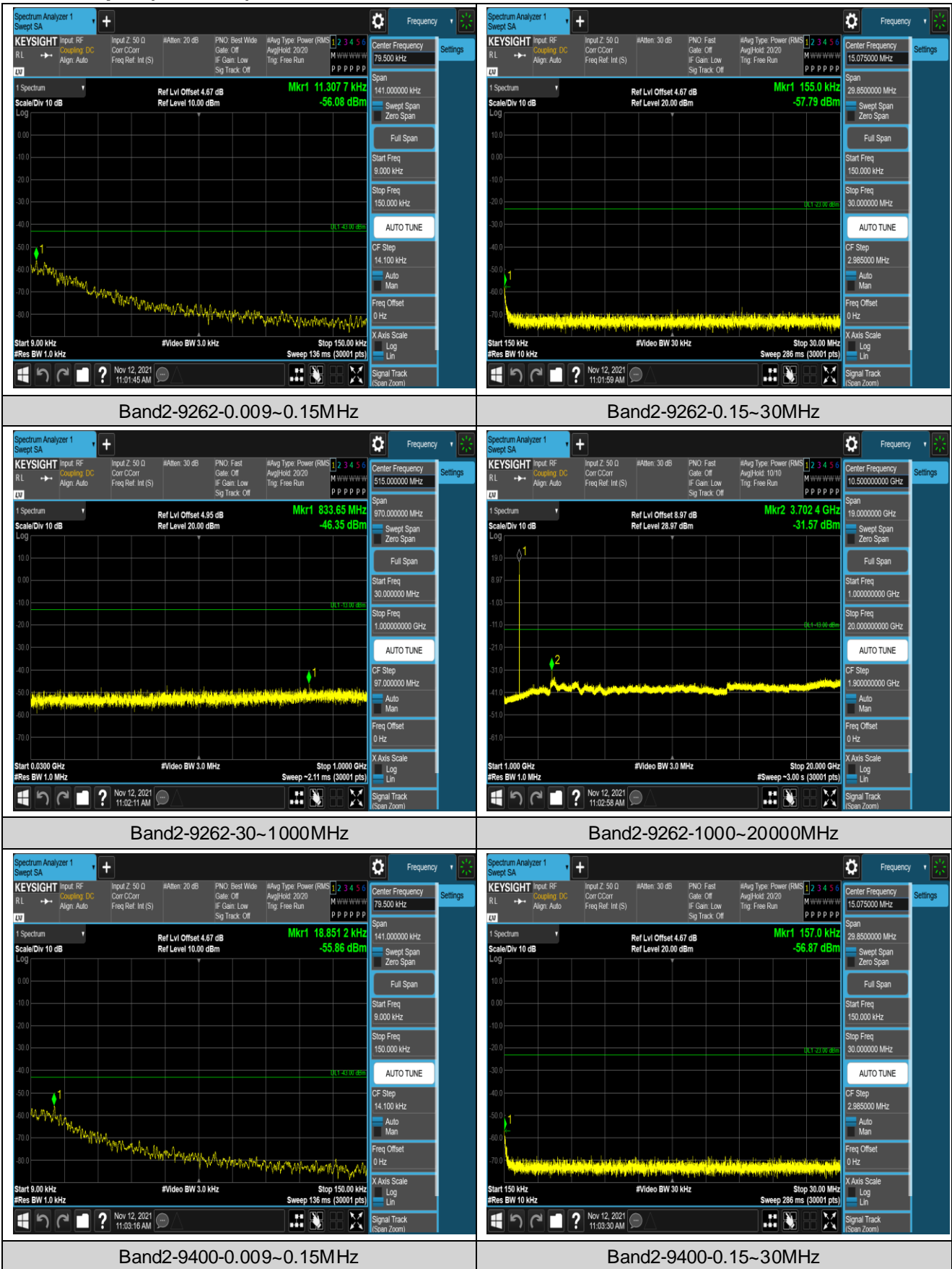


Appendix E: Conducted Spurious Emission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.08	-43	PASS
Band2	9262	0.15~30MHz	0.15	-57.8	-23	PASS
Band2	9262	30~1000MHz	833.65	-46.35	-13	PASS
Band2	9262	1000~20000MHz	3702.43	-31.57	-13	PASS
Band2	9400	0.009~0.15MHz	0.02	-55.86	-43	PASS
Band2	9400	0.15~30MHz	0.16	-56.87	-23	PASS
Band2	9400	30~1000MHz	858.87	-46.4	-13	PASS
Band2	9400	1000~20000MHz	3761.97	-30.68	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-57.43	-43	PASS
Band2	9538	0.15~30MHz	0.16	-57.37	-23	PASS
Band2	9538	30~1000MHz	997.9	-46.76	-13	PASS
Band2	9538	1000~20000MHz	3813.27	-31.31	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-55.96	-43	PASS
Band4	1312	0.15~30MHz	0.16	-58.49	-23	PASS
Band4	1312	30~1000MHz	928.16	-46.59	-13	PASS
Band4	1312	1000~20000MHz	19419.87	-34.54	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.96	-43	PASS
Band4	1413	0.15~30MHz	0.15	-57.01	-23	PASS
Band4	1413	30~1000MHz	515	-46.52	-13	PASS
Band4	1413	1000~20000MHz	19978.47	-34.56	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.39	-43	PASS
Band4	1513	0.15~30MHz	0.17	-56.76	-23	PASS
Band4	1513	30~1000MHz	547.82	-46.44	-13	PASS
Band4	1513	1000~20000MHz	3751.83	-34.82	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.79	-33	PASS
Band5	4132	0.15~30MHz	0.17	-56.79	-13	PASS
Band5	4132	30~1000MHz	936.92	-56.07	-13	PASS
Band5	4132	1000~10000MHz	3706.9	-34.51	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.25	-33	PASS
Band5	4183	0.15~30MHz	0.15	-55.94	-13	PASS
Band5	4183	30~1000MHz	961.14	-55.55	-13	PASS
Band5	4183	1000~10000MHz	3799.6	-34.33	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.85	-33	PASS
Band5	4233	0.15~30MHz	0.15	-56.8	-13	PASS
Band5	4233	30~1000MHz	999.52	-55.65	-13	PASS
Band5	4233	1000~10000MHz	4265.8	-34.46	-13	PASS

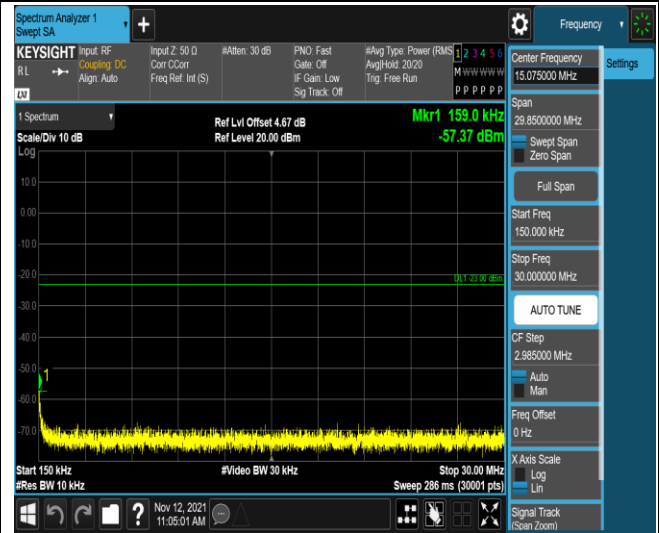
Test Graphs(WCDMA)





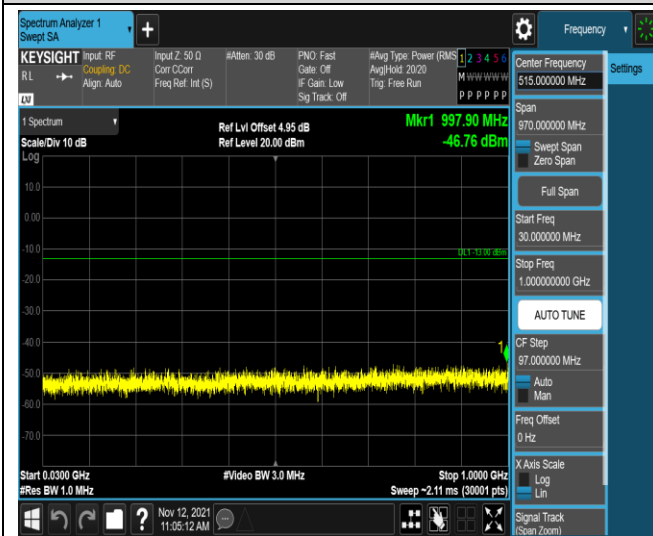
Band2-9400-30~1000MHz

Band2-9400-1000~20000MHz



Band2-9538-0.009~0.15MHz

Band2-9538-0.15~30MHz



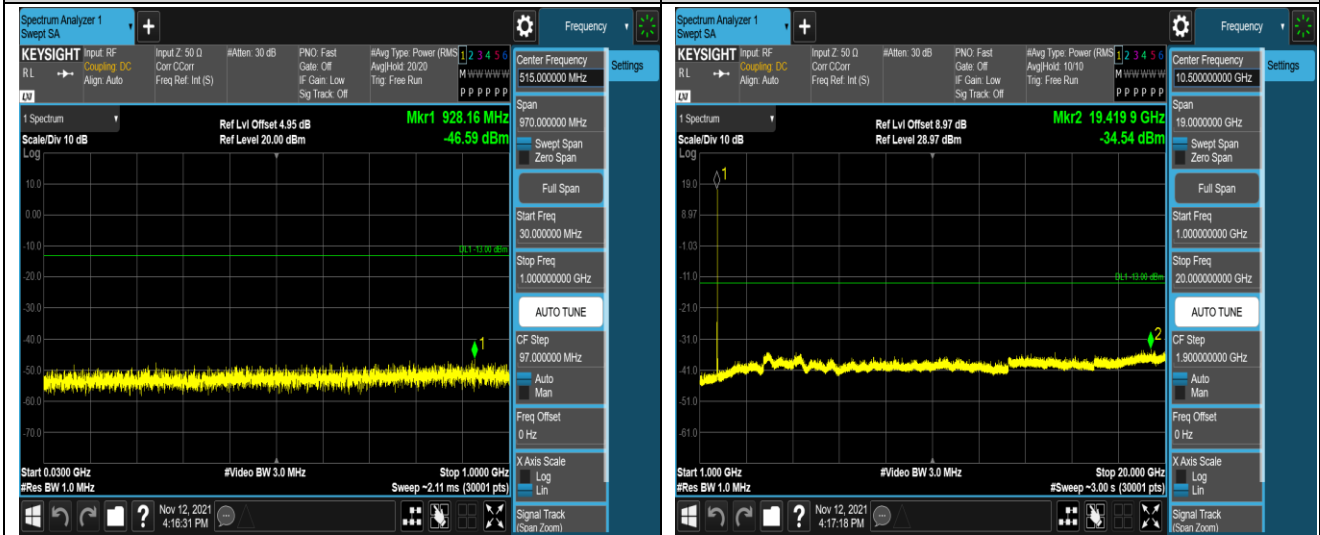
Band2-9538-30~1000MHz

Band2-9538-1000~20000MHz



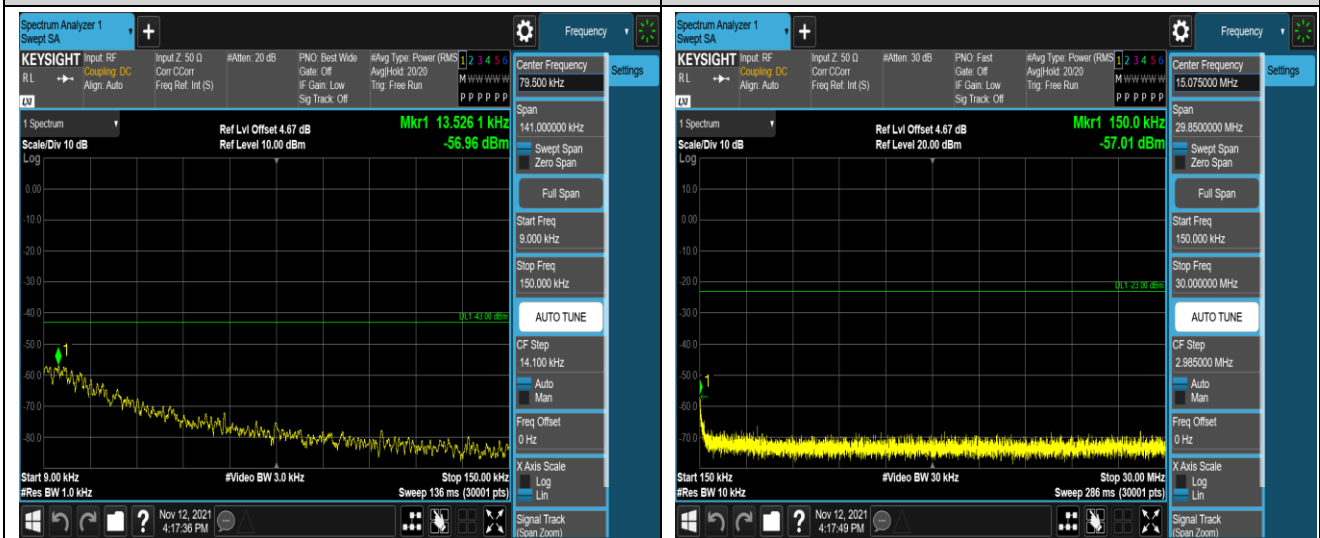
Band4-1312-0.009~0.15MHz

Band4-1312-0.15~30MHz



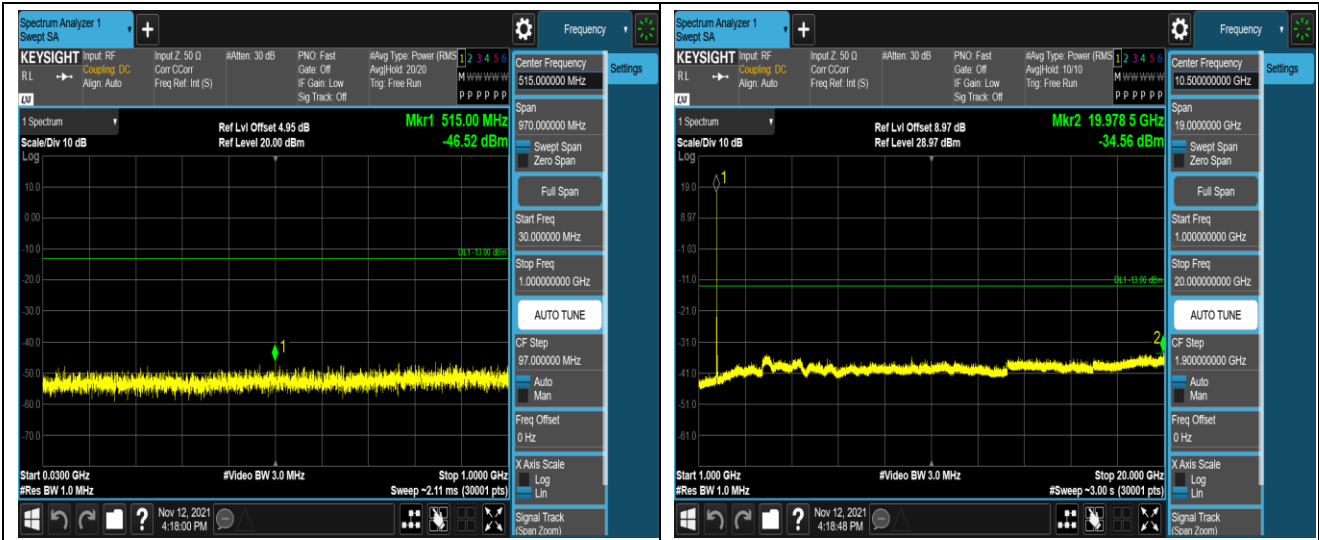
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



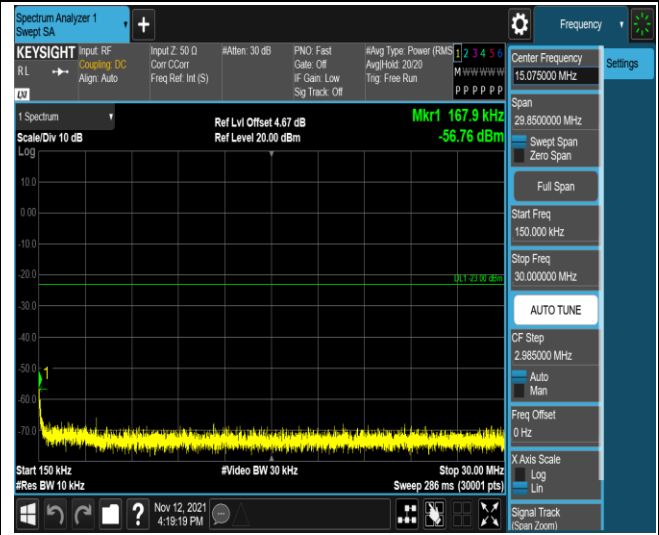
Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



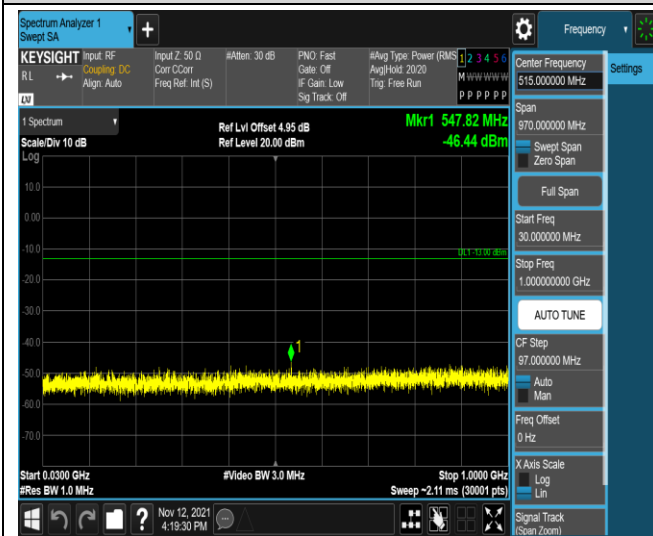
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz



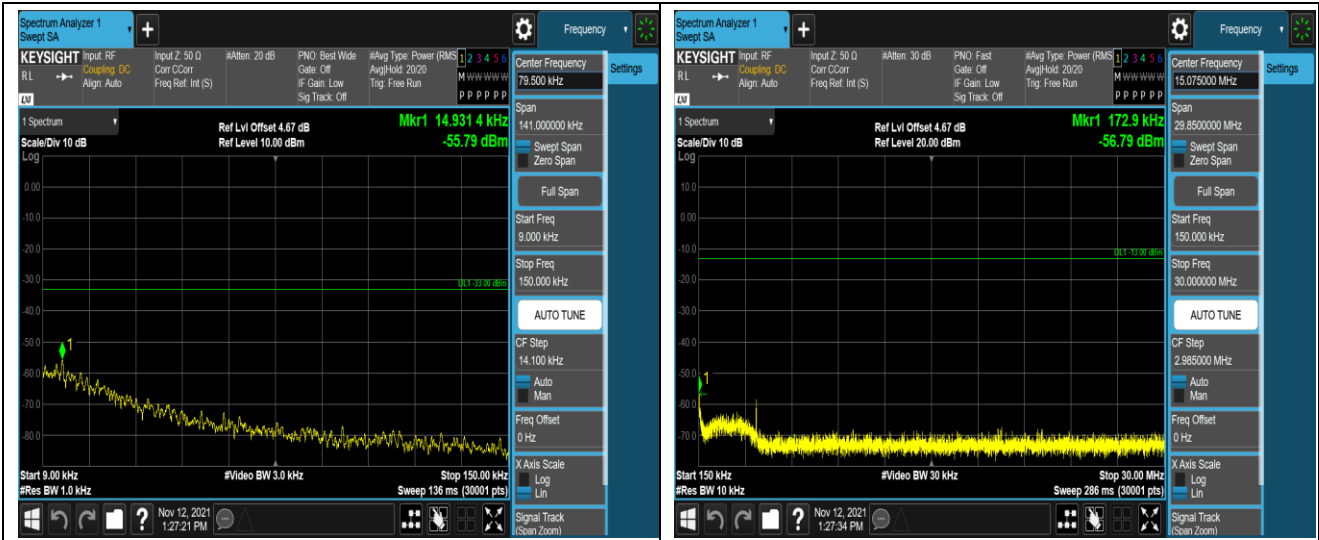
Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz



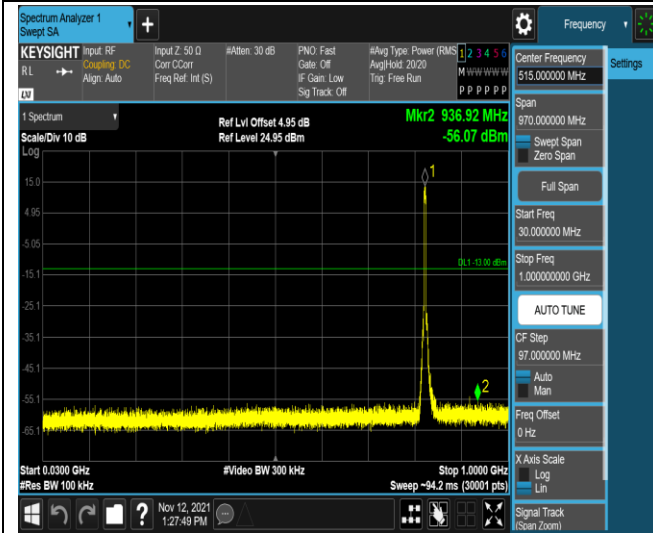
Band4-1513-30~1000MHz

Band4-1513-1000~20000MHz



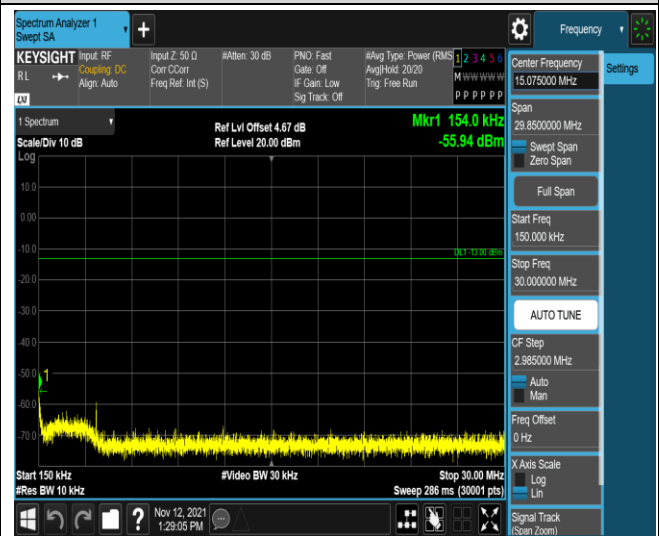
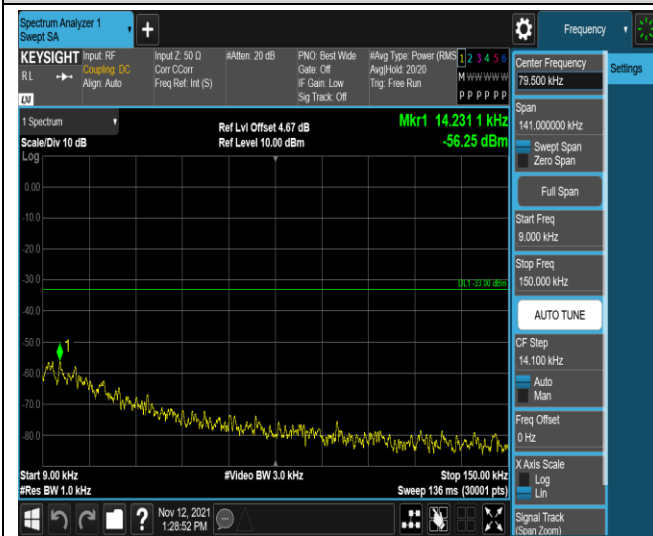
Band5-4132-0.009~0.15MHz

Band5-4132-0.15~30MHz



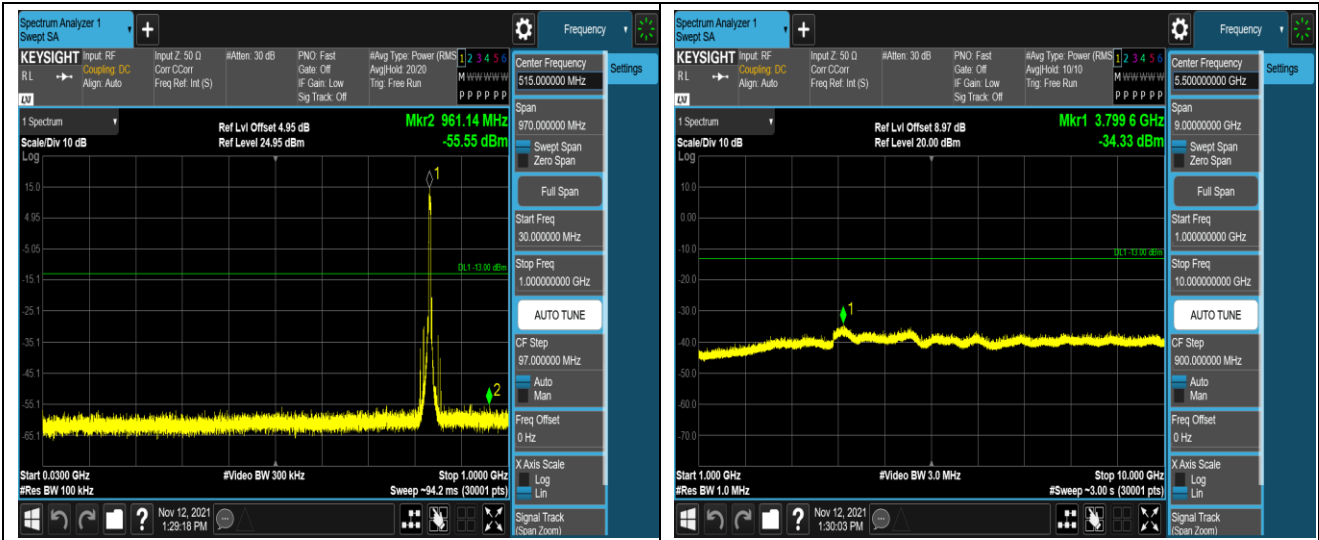
Band5-4132-30~1000MHz

Band5-4132-1000~10000MHz



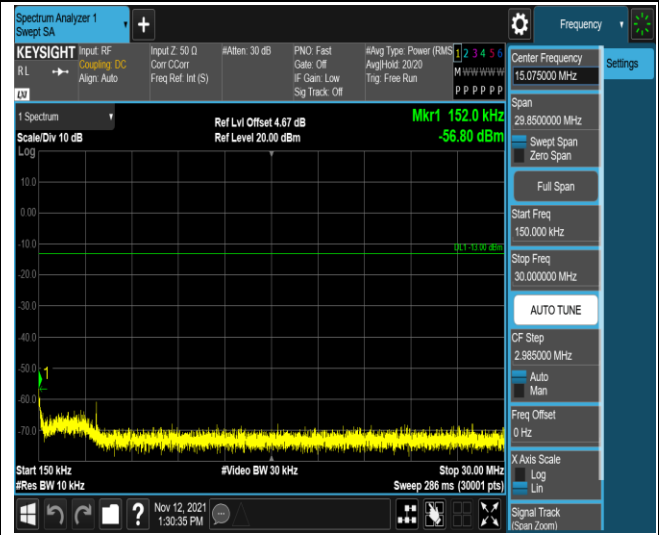
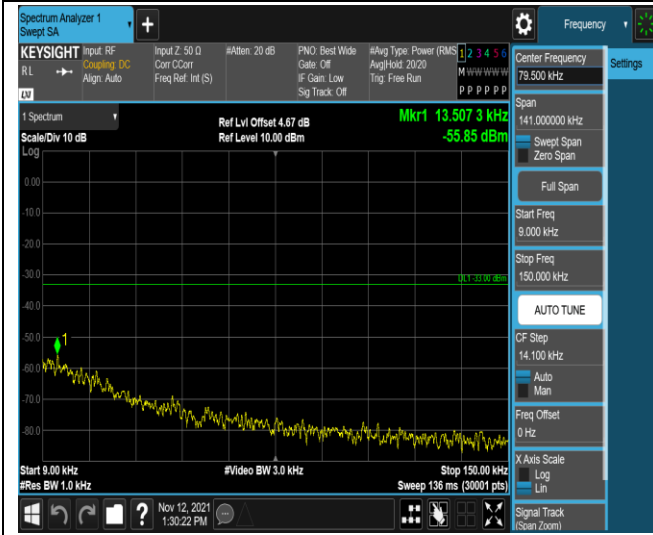
Band5-4183-0.009~0.15MHz

Band5-4183-0.15~30MHz



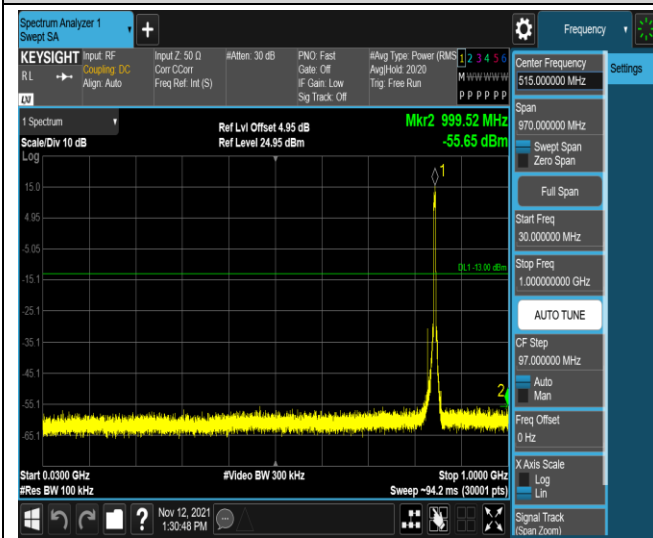
Band5-4183-30~1000MHz

Band5-4183-1000~10000MHz



Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz

Appendix F: Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-9.86	-0.011786	±2.5	Pass
	-20	-11.97	-0.014308		
	-10	-11.85	-0.014164		
	0	-9.44	-0.011284		
	10	-14.07	-0.016818		
	20	-12.36	-0.014774		
	30	-10.63	-0.012706		
	40	-13.42	-0.016041		
	50	-11.98	-0.014320		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-9.64	-0.011523	±2.5	Pass
	3.85	-8.98	-0.010734		
	4.23	-10.08	-0.012049		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND IV 12.2k RMC Middle Frequency=1413 channel=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-13.83	-0.007982	Within authorized band for BAND IV	Pass
	-20	-12.23	-0.007059		
	-10	-10.57	-0.006101		
	0	-11.19	-0.006459		
	10	-15.06	-0.008692		
	20	-13.41	-0.007740		
	30	-11.57	-0.006678		
	40	-10.99	-0.006343		
	50	-14.11	-0.008144		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.07	-0.006966	Within authorized band for BAND IV	Pass
	3.85	-14.30	-0.008253		
	4.23	-10.81	-0.006239		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-10.56	-0.005617	Within authorized band for BAND II	Pass
	-20	-6.45	-0.003431		
	-10	-13.63	-0.007250		
	0	-10.81	-0.005750		
	10	-10.74	-0.005713		
	20	-8.82	-0.004691		
	30	-11.12	-0.005915		
	40	-9.87	-0.005250		
	50	-8.29	-0.004410		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-14.10	-0.007500	Within authorized band for BAND II	Pass
	3.85	-13.16	-0.007000		
	4.23	-9.75	-0.005186		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1413	PASS	PASS
Band5	4183	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

Band2-9400

Band4-1413

Band5-4183