

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP(dBm)	ERP/EIRP Limit (dBm)
Band2	Voice	9262	23.12	0.35	23.47	33.00
Band2	RMC	9262	23.21	0.35	23.56	33.00
Band2	Voice	9400	23.02	0.35	23.37	33.00
Band2	RMC	9400	23.05	0.35	23.40	33.00
Band2	Voice	9538	23.21	0.35	23.56	33.00
Band2	RMC	9538	23.29	0.35	23.64	33.00
Band5	Voice	4132	23.79	0.15	21.79	38.45
Band5	RMC	4132	23.82	0.15	21.82	38.45
Band5	Voice	4183	23.65	0.15	21.65	38.45
Band5	RMC	4183	23.70	0.15	21.70	38.45
Band5	Voice	4233	23.63	0.15	21.63	38.45
Band5	RMC	4233	23.73	0.15	21.73	38.45
Band4	Voice	1312	23.91	1.00	24.91	30.00
Band4	RMC	1312	23.94	1.00	24.94	30.00
Band4	Voice	1413	23.73	1.00	24.73	30.00
Band4	RMC	1413	23.77	1.00	24.77	30.00
Band4	Voice	1513	23.59	1.00	24.59	30.00
Band4	RMC	1513	23.62	1.00	24.62	30.00

Test Result(HSDPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	22.24	0.35	22.59	33.00
Band2	HSDPA	9262	2	21.86	0.35	22.21	33.00
Band2	HSDPA	9262	3	21.79	0.35	22.14	33.00
Band2	HSDPA	9262	4	21.73	0.35	22.08	33.00
Band2	HSDPA	9400	1	22.09	0.35	22.44	33.00
Band2	HSDPA	9400	2	21.64	0.35	21.99	33.00
Band2	HSDPA	9400	3	21.63	0.35	21.98	33.00

Band2	HSDPA	9400	4	21.61	0.35	21.96	33.00
Band2	HSDPA	9538	1	22.31	0.35	22.66	33.00
Band2	HSDPA	9538	2	21.85	0.35	22.20	33.00
Band2	HSDPA	9538	3	21.84	0.35	22.19	33.00
Band2	HSDPA	9538	4	21.83	0.35	22.18	33.00
Band5	HSDPA	4132	1	22.83	0.15	20.83	38.45
Band5	HSDPA	4132	2	22.46	0.15	20.46	38.45
Band5	HSDPA	4132	3	22.30	0.15	20.3	38.45
Band5	HSDPA	4132	4	22.28	0.15	20.28	38.45
Band5	HSDPA	4183	1	22.68	0.15	20.68	38.45
Band5	HSDPA	4183	2	22.16	0.15	20.16	38.45
Band5	HSDPA	4183	3	22.18	0.15	20.18	38.45
Band5	HSDPA	4183	4	22.10	0.15	20.1	38.45
Band5	HSDPA	4233	1	22.67	0.15	20.67	38.45
Band5	HSDPA	4233	2	22.18	0.15	20.18	38.45
Band5	HSDPA	4233	3	22.19	0.15	20.19	38.45
Band5	HSDPA	4233	4	22.13	0.15	20.13	38.45
Band4	HSDPA	1312	1	23	1.00	24.00	30.00
Band4	HSDPA	1312	2	22.65	1.00	23.65	30.00
Band4	HSDPA	1312	3	22.5	1.00	23.50	30.00
Band4	HSDPA	1312	4	22.45	1.00	23.45	30.00
Band4	HSDPA	1413	1	21.79	1.00	22.79	30.00
Band4	HSDPA	1413	2	21.25	1.00	22.25	30.00
Band4	HSDPA	1413	3	21.25	1.00	22.25	30.00
Band4	HSDPA	1413	4	21.2	1.00	22.20	30.00
Band4	HSDPA	1513	1	22.63	1.00	23.63	30.00
Band4	HSDPA	1513	2	22.13	1.00	23.13	30.00
Band4	HSDPA	1513	3	22.07	1.00	23.07	30.00
Band4	HSDPA	1513	4	22.09	1.00	23.09	30.00
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For WCDMA Band 2)							
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For WCDMA Band 5)							

Test Result(HSUPA)

Band	Type	Channel	SubTest	Average Power	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
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				(dBm)			
Band2	HSUPA	9262	1	20.27	0.35	20.62	33.00
Band2	HSUPA	9262	2	20.79	0.35	21.14	33.00
Band2	HSUPA	9262	3	21.28	0.35	21.63	33.00
Band2	HSUPA	9262	4	20.33	0.35	20.68	33.00
Band2	HSUPA	9262	5	21.81	0.35	22.16	33.00
Band2	HSUPA	9400	1	20.14	0.35	20.49	33.00
Band2	HSUPA	9400	2	20.63	0.35	20.98	33.00
Band2	HSUPA	9400	3	21.15	0.35	21.50	33.00
Band2	HSUPA	9400	4	20.14	0.35	20.49	33.00
Band2	HSUPA	9400	5	21.66	0.35	22.01	33.00
Band2	HSUPA	9538	1	20.33	0.35	20.68	33.00
Band2	HSUPA	9538	2	20.87	0.35	21.22	33.00
Band2	HSUPA	9538	3	21.37	0.35	21.72	33.00
Band2	HSUPA	9538	4	20.37	0.35	20.72	33.00
Band2	HSUPA	9538	5	22.24	0.35	22.59	33.00
Band5	HSUPA	4132	1	20.87	0.15	18.87	38.45
Band5	HSUPA	4132	2	21.35	0.15	19.35	38.45
Band5	HSUPA	4132	3	21.88	0.15	19.88	38.45
Band5	HSUPA	4132	4	20.88	0.15	18.88	38.45
Band5	HSUPA	4132	5	22.72	0.15	20.72	38.45
Band5	HSUPA	4183	1	20.71	0.15	18.71	38.45
Band5	HSUPA	4183	2	21.24	0.15	19.24	38.45
Band5	HSUPA	4183	3	21.73	0.15	19.73	38.45
Band5	HSUPA	4183	4	20.76	0.15	18.76	38.45
Band5	HSUPA	4183	5	22.58	0.15	20.58	38.45
Band5	HSUPA	4233	1	20.73	0.15	18.73	38.45
Band5	HSUPA	4233	2	21.21	0.15	19.21	38.45
Band5	HSUPA	4233	3	21.74	0.15	19.74	38.45
Band5	HSUPA	4233	4	20.73	0.15	18.73	38.45
Band5	HSUPA	4233	5	22.19	0.15	20.19	38.45
Band4	HSUPA	1312	1	20.97	1.00	21.97	30.00
Band4	HSUPA	1312	2	21.48	1.00	22.48	30.00
Band4	HSUPA	1312	3	21.98	1.00	22.98	30.00
Band4	HSUPA	1312	4	21.02	1.00	22.02	30.00

Band4	HSUPA	1312	5	22.88	1.00	23.88	30.00
Band4	HSUPA	1413	1	19.76	1.00	20.76	30.00
Band4	HSUPA	1413	2	20.26	1.00	21.26	30.00
Band4	HSUPA	1413	3	20.75	1.00	21.75	30.00
Band4	HSUPA	1413	4	19.78	1.00	20.78	30.00
Band4	HSUPA	1413	5	21.27	1.00	22.27	30.00
Band4	HSUPA	1513	1	20.62	1.00	21.62	30.00
Band4	HSUPA	1513	2	21.1	1.00	22.10	30.00
Band4	HSUPA	1513	3	21.68	1.00	22.68	30.00
Band4	HSUPA	1513	4	20.65	1.00	21.65	30.00
Band4	HSUPA	1513	5	22.15	1.00	23.15	30.00

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)

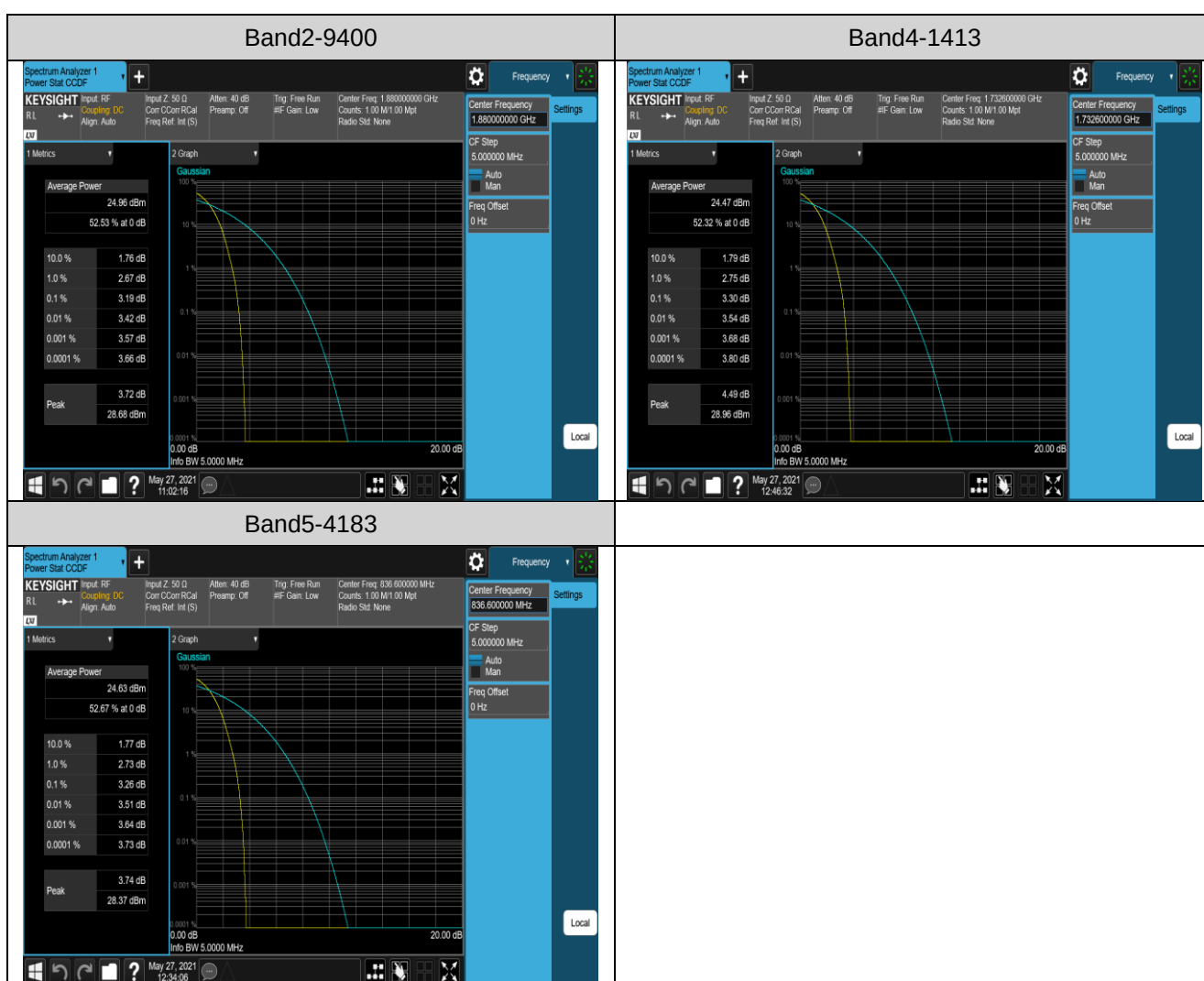
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.19	13	PASS
Band4	1413	3.3	13	PASS
Band5	4183	3.26	13	PASS

Test Graphs(WCDMA)

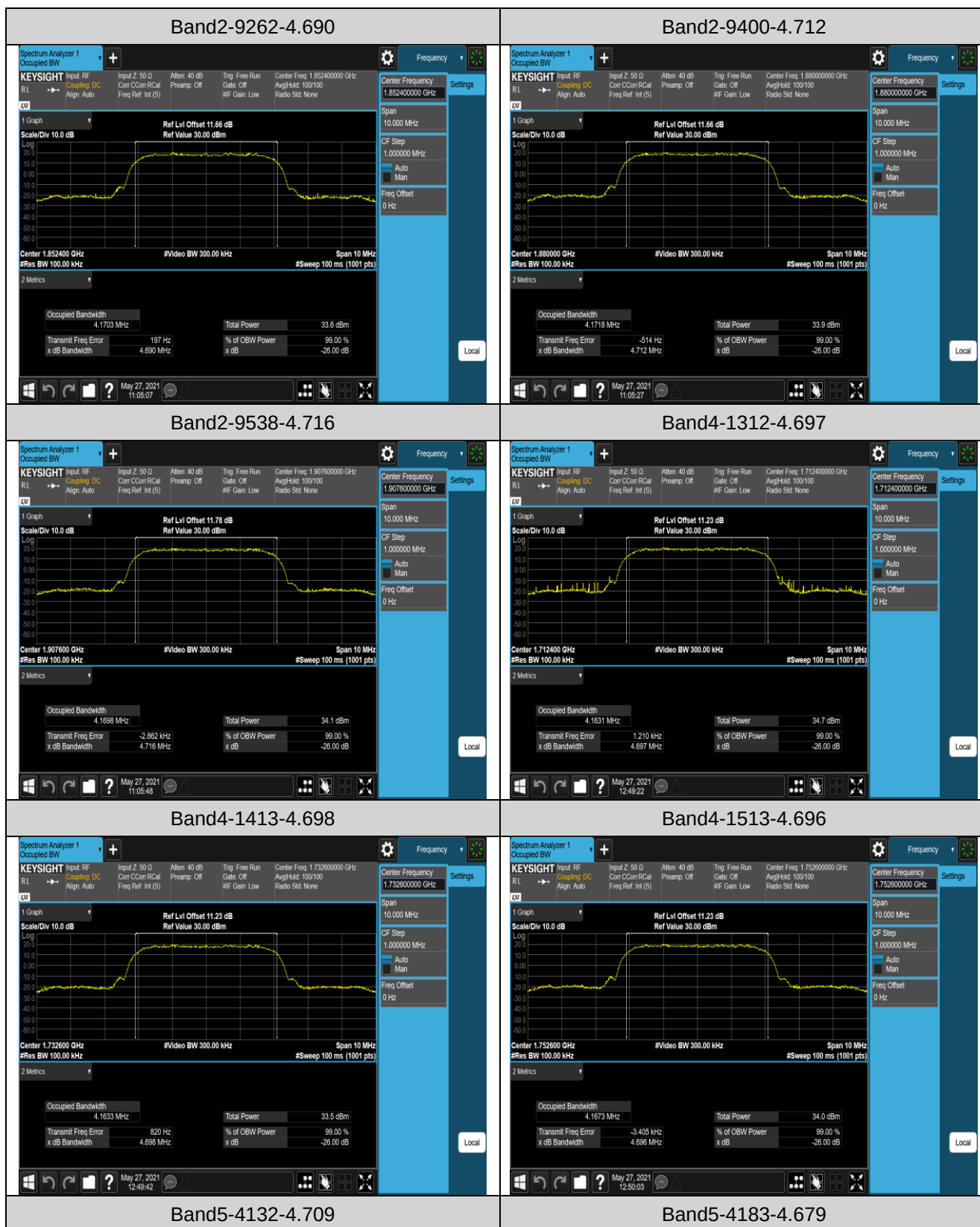


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1703	4.690	---	PASS
Band2	9400	4.1718	4.712	---	PASS
Band2	9538	4.1698	4.716	---	PASS
Band4	1312	4.1631	4.697	---	PASS
Band4	1413	4.1633	4.698	---	PASS
Band4	1513	4.1673	4.696	---	PASS
Band5	4132	4.1665	4.709	---	PASS
Band5	4183	4.1619	4.679	---	PASS
Band5	4233	4.1683	4.926	---	PASS

Test Graphs(WCDMA)



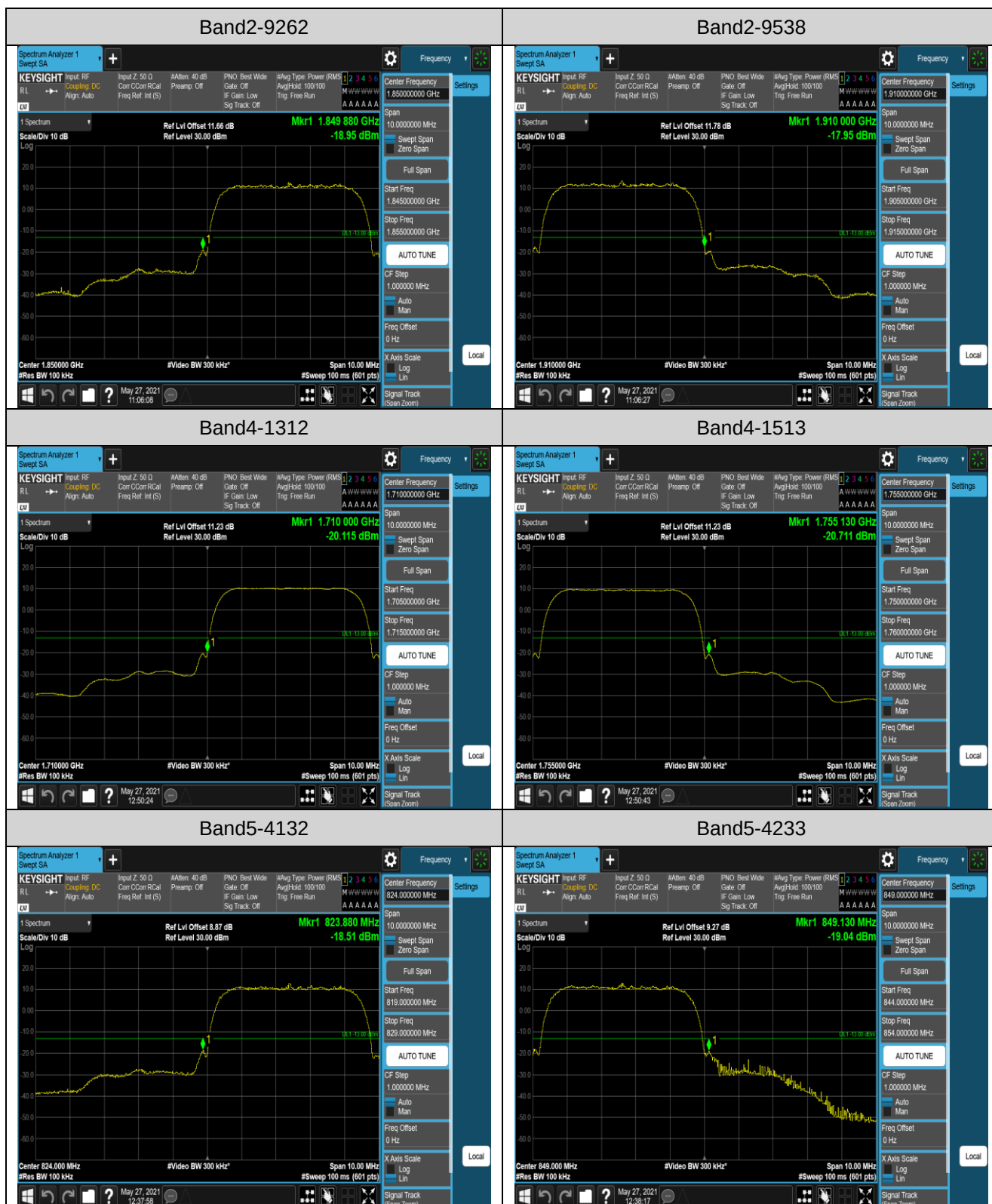


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.88	-18.95	-13	PASS
Band2	9538	1910.00	-17.95	-13	PASS
Band4	1312	1710.00	-20.12	-13	PASS
Band4	1513	1755.13	-20.71	-13	PASS
Band5	4132	823.88	-18.51	-13	PASS
Band5	4233	849.13	-19.04	-13	PASS

Test Graphs(WCDMA)



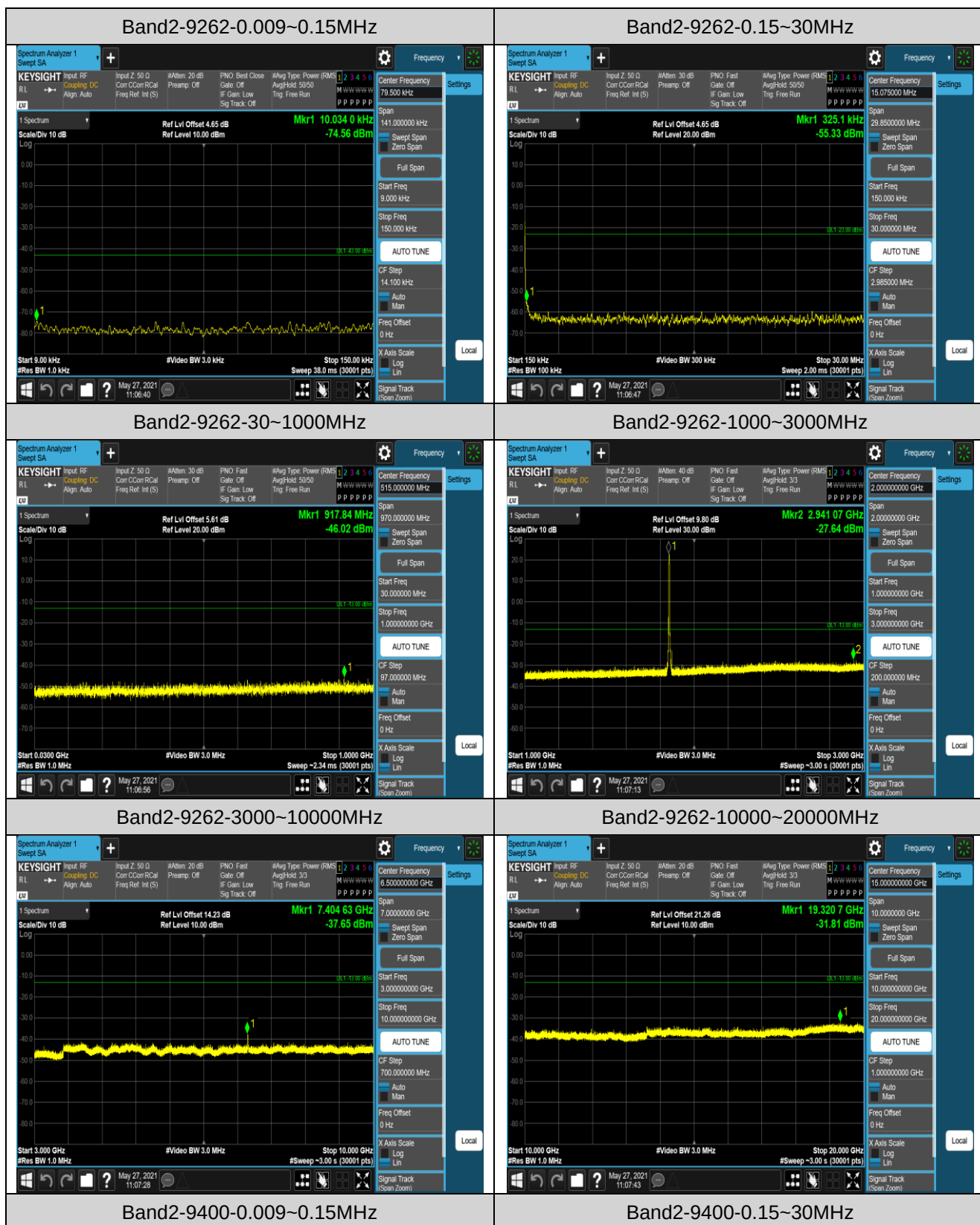
AppendixE:Conducted SpuriousEmission

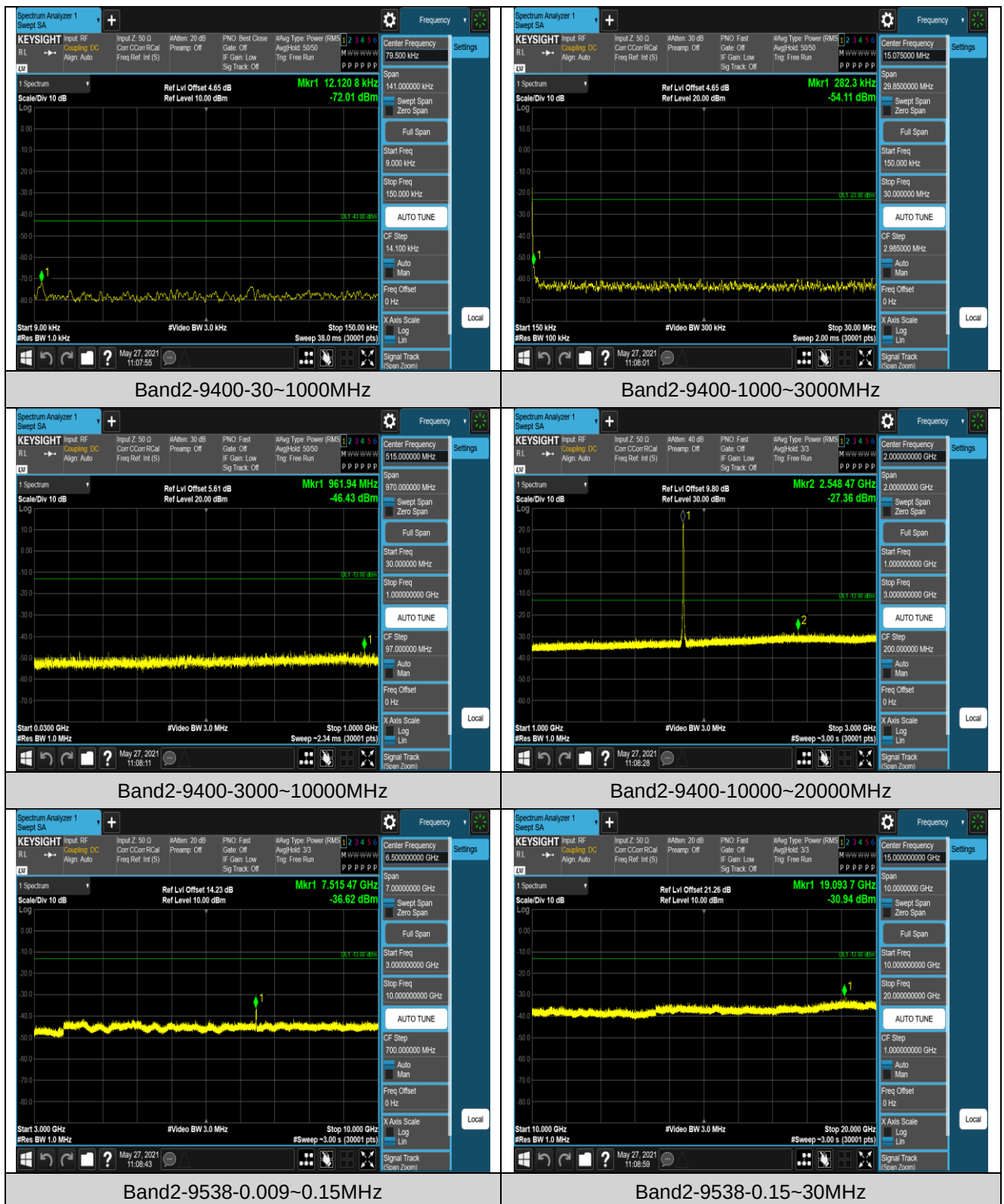
Test Result(WCDMA)

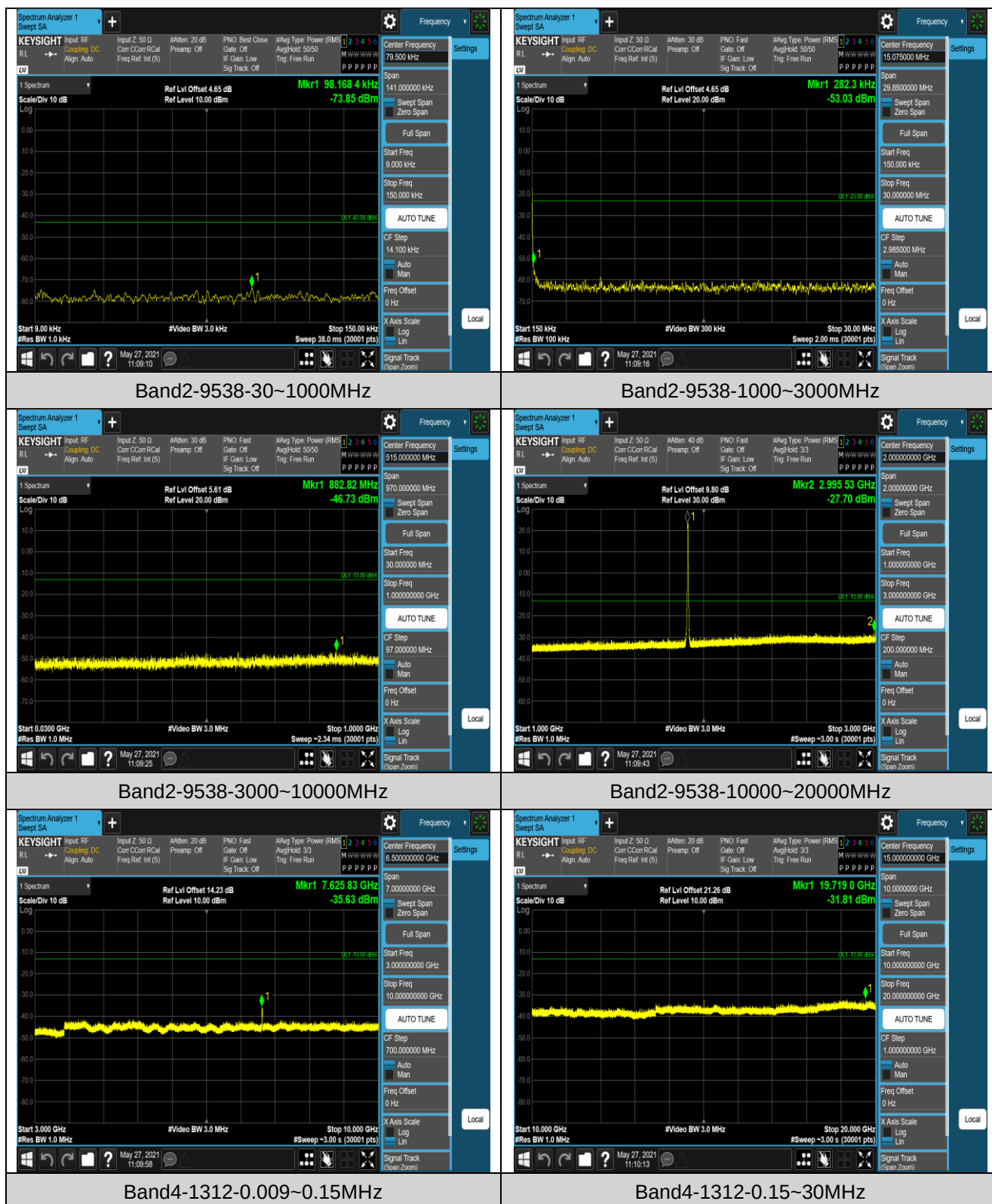
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-74.56	-43	PASS
Band2	9262	0.15~30MHz	0.33	-55.33	-23	PASS
Band2	9262	30~1000MHz	917.84	-46.02	-13	PASS
Band2	9262	1000~3000MHz	2941.07	-27.64	-13	PASS
Band2	9262	3000~10000MHz	7404.63	-37.65	-13	PASS
Band2	9262	10000~20000MHz	19320.67	-31.81	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-72.01	-43	PASS
Band2	9400	0.15~30MHz	0.28	-54.11	-23	PASS
Band2	9400	30~1000MHz	961.94	-46.43	-13	PASS
Band2	9400	1000~3000MHz	2548.47	-27.36	-13	PASS
Band2	9400	3000~10000MHz	7515.47	-36.62	-13	PASS
Band2	9400	10000~20000MHz	19093.67	-30.94	-13	PASS
Band2	9538	0.009~0.15MHz	0.1	-73.86	-43	PASS
Band2	9538	0.15~30MHz	0.28	-53.03	-23	PASS
Band2	9538	30~1000MHz	882.82	-46.73	-13	PASS
Band2	9538	1000~3000MHz	2995.53	-27.7	-13	PASS
Band2	9538	3000~10000MHz	7625.83	-35.63	-13	PASS
Band2	9538	10000~20000MHz	19719	-31.81	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-74.25	-43	PASS
Band4	1312	0.15~30MHz	0.28	-53.02	-23	PASS
Band4	1312	30~1000MHz	971.58	-45.95	-13	PASS
Band4	1312	1000~3000MHz	2539.27	-27.9	-13	PASS
Band4	1312	3000~10000MHz	4701	-41.09	-13	PASS
Band4	1312	10000~20000MHz	19076	-31.79	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-73.94	-43	PASS
Band4	1413	0.15~30MHz	0.28	-54.43	-23	PASS
Band4	1413	30~1000MHz	769.5	-46.43	-13	PASS
Band4	1413	1000~3000MHz	2761	-27.25	-13	PASS
Band4	1413	3000~10000MHz	4879.5	-41.02	-13	PASS
Band4	1413	10000~20000MHz	19917	-31.16	-13	PASS

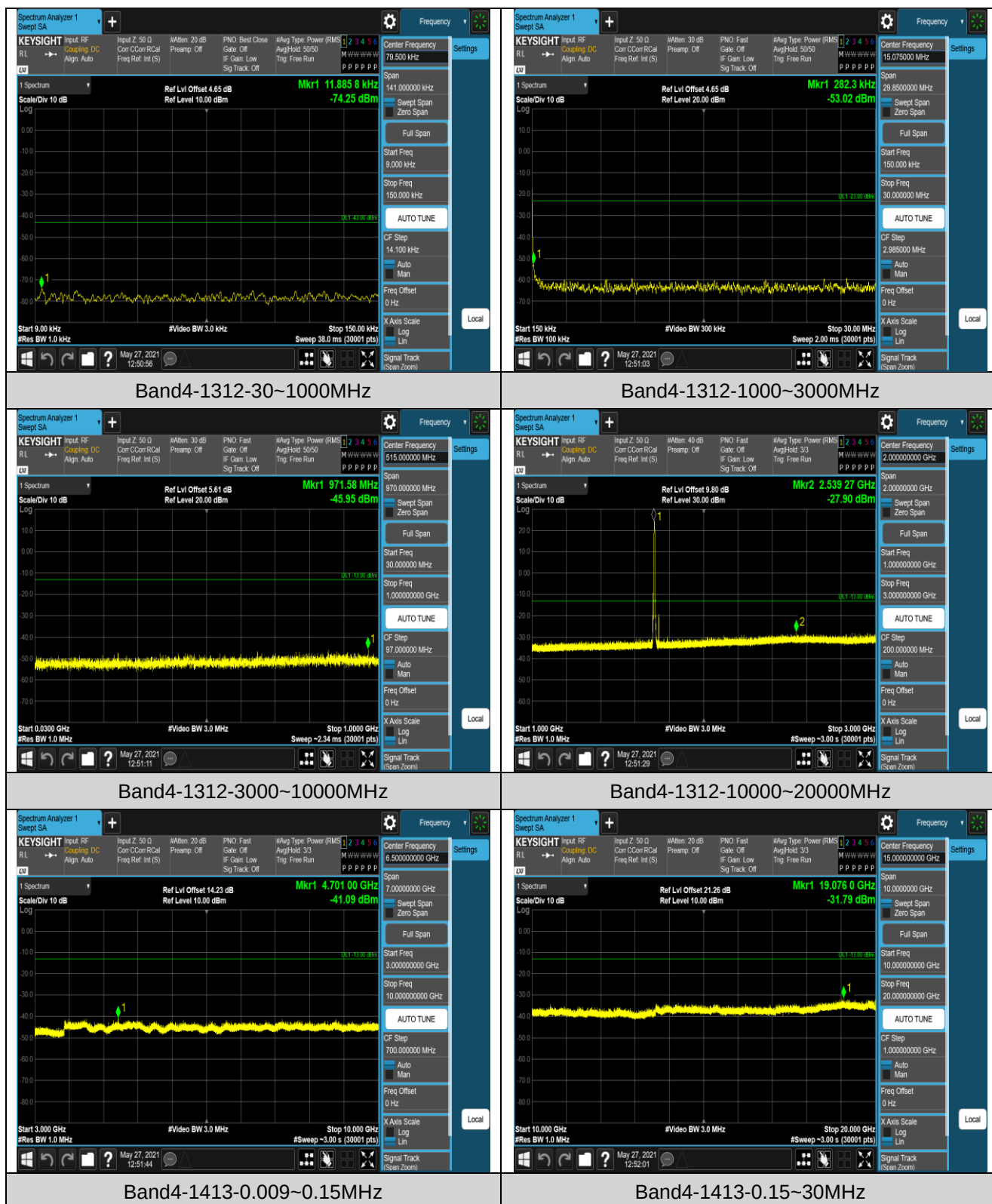
Band4	1513	0.009~0.15MHz	0.13	-74.48	-43	PASS
Band4	1513	0.15~30MHz	0.28	-54.71	-23	PASS
Band4	1513	30~1000MHz	984.29	-45.76	-13	PASS
Band4	1513	1000~3000MHz	2996.13	-28.21	-13	PASS
Band4	1513	3000~10000MHz	4943.2	-41.27	-13	PASS
Band4	1513	10000~20000MHz	18975	-31.53	-13	PASS
Band5	4132	0.009~0.15MHz	0.1	-73.3	-33	PASS
Band5	4132	0.15~30MHz	0.29	-54.53	-13	PASS
Band5	4132	30~1000MHz	412.7	-30.47	-13	PASS
Band5	4132	1000~3000MHz	2426.67	-36.27	-13	PASS
Band5	4132	3000~10000MHz	5860.2	-41.37	-13	PASS
Band5	4132	10000~18000MHz	17605.07	-41.67	-13	PASS
Band5	4183	0.009~0.15MHz	0.1	-73.85	-33	PASS
Band5	4183	0.15~30MHz	0.28	-53.14	-13	PASS
Band5	4183	30~1000MHz	722.22	-35.63	-13	PASS
Band5	4183	1000~3000MHz	2708.27	-36.07	-13	PASS
Band5	4183	3000~10000MHz	4929.67	-40.78	-13	PASS
Band5	4183	10000~18000MHz	13612.53	-41.53	-13	PASS
Band5	4233	0.009~0.15MHz	0.1	-74.25	-33	PASS
Band5	4233	0.15~30MHz	0.3	-52.7	-13	PASS
Band5	4233	30~1000MHz	996.73	-37.19	-13	PASS
Band5	4233	1000~3000MHz	2457.33	-35.95	-13	PASS
Band5	4233	3000~10000MHz	3752.27	-40.79	-13	PASS
Band5	4233	10000~18000MHz	13980.53	-40.62	-13	PASS

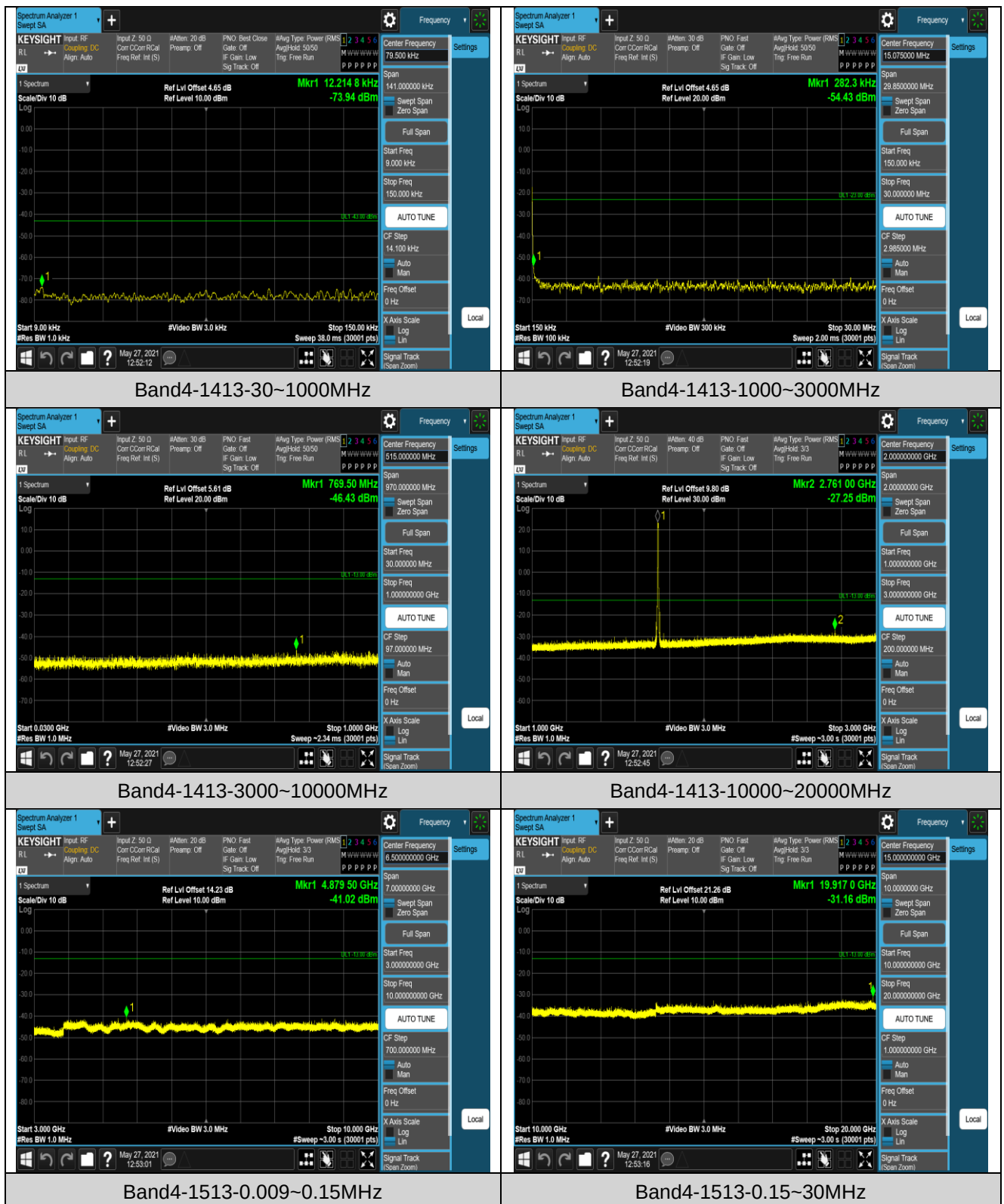
Test Graphs(WCDMA)

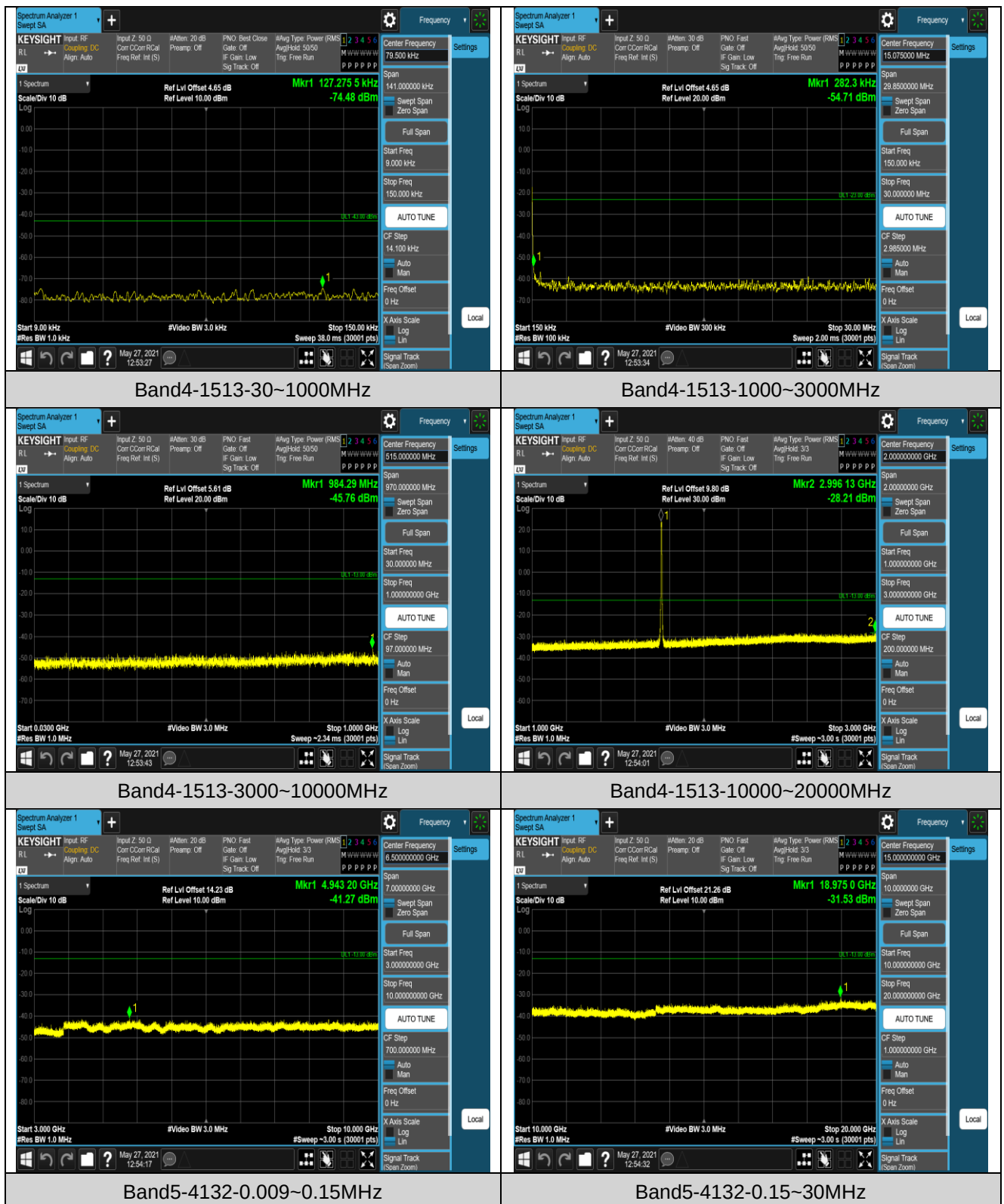


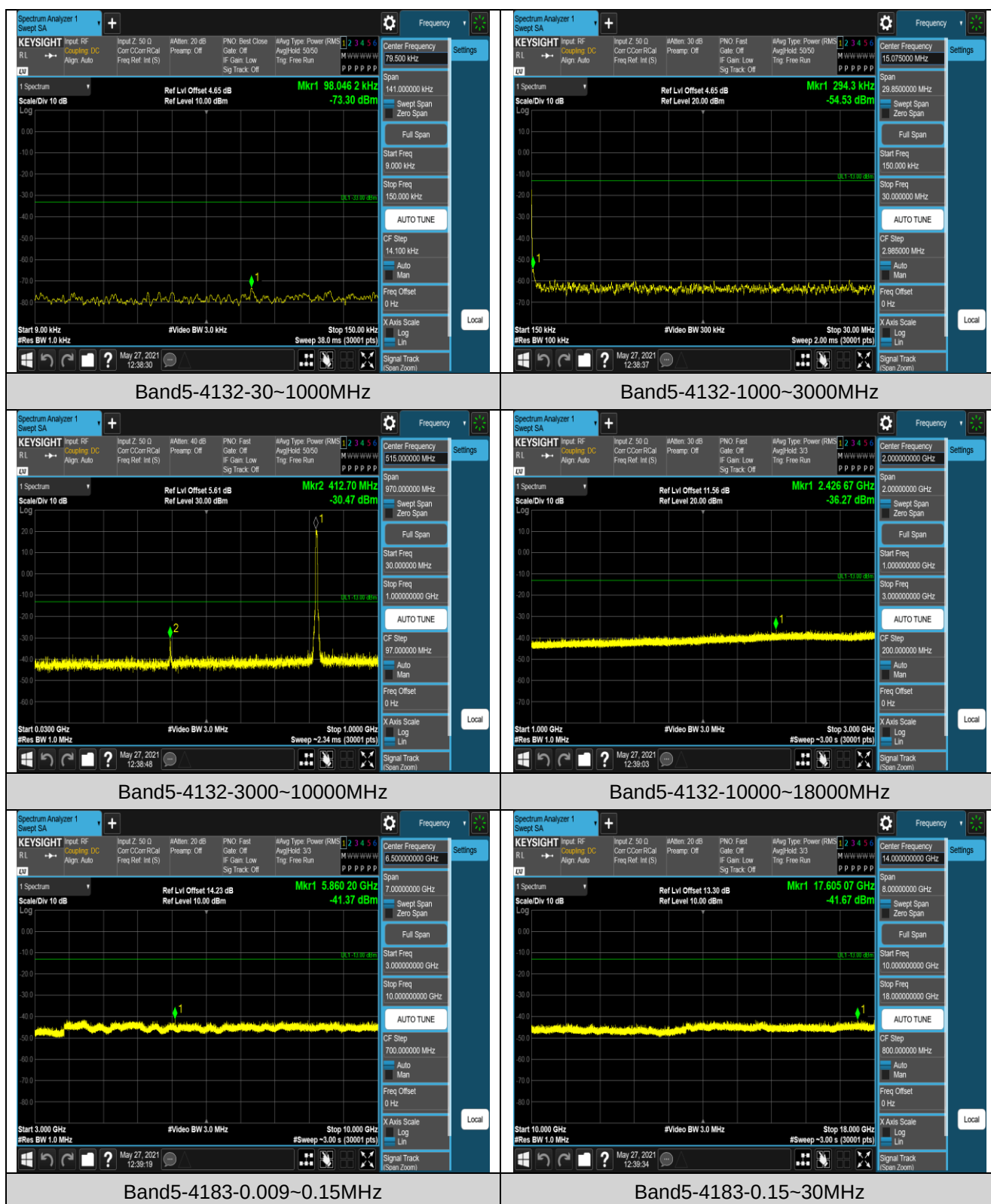


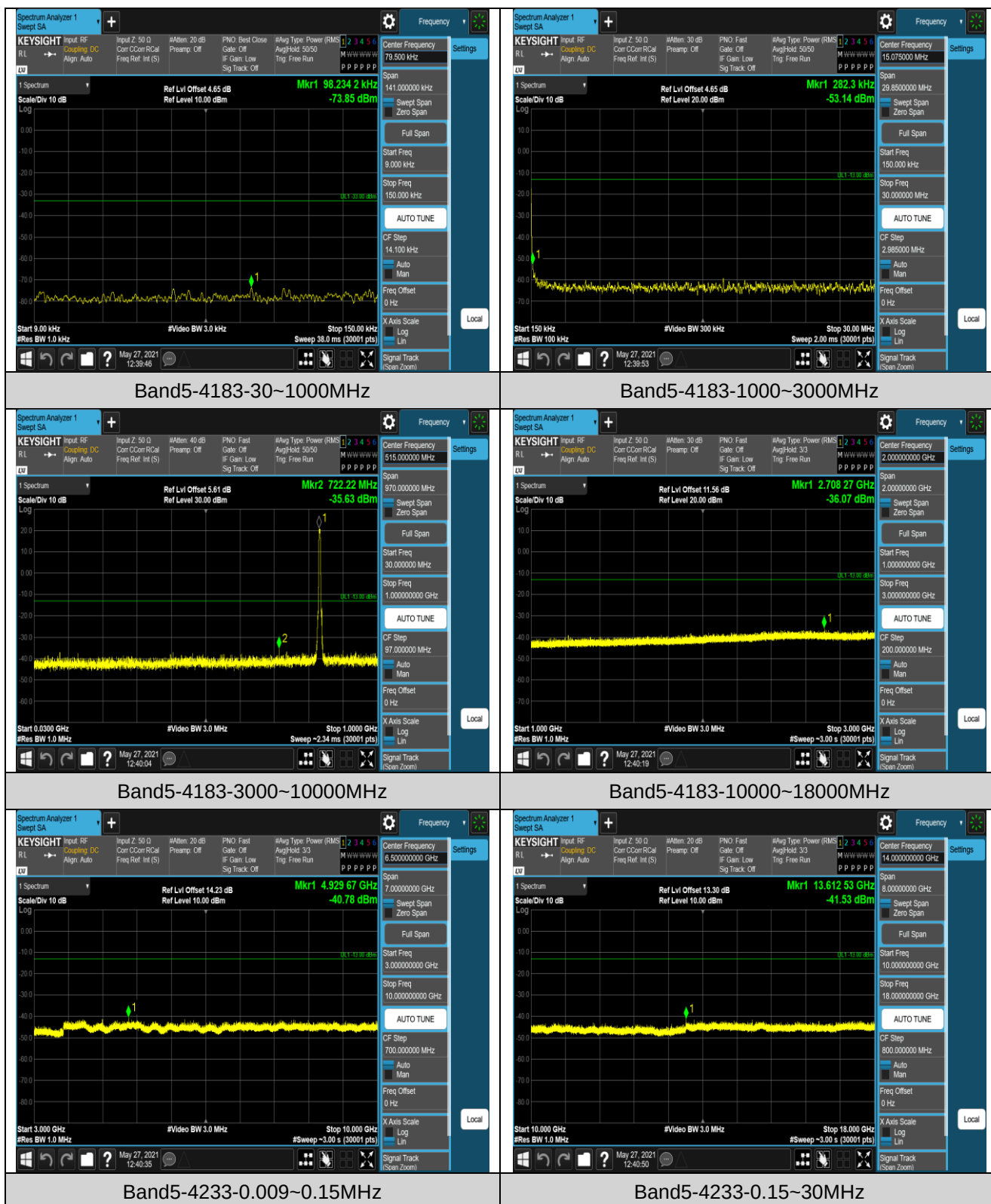


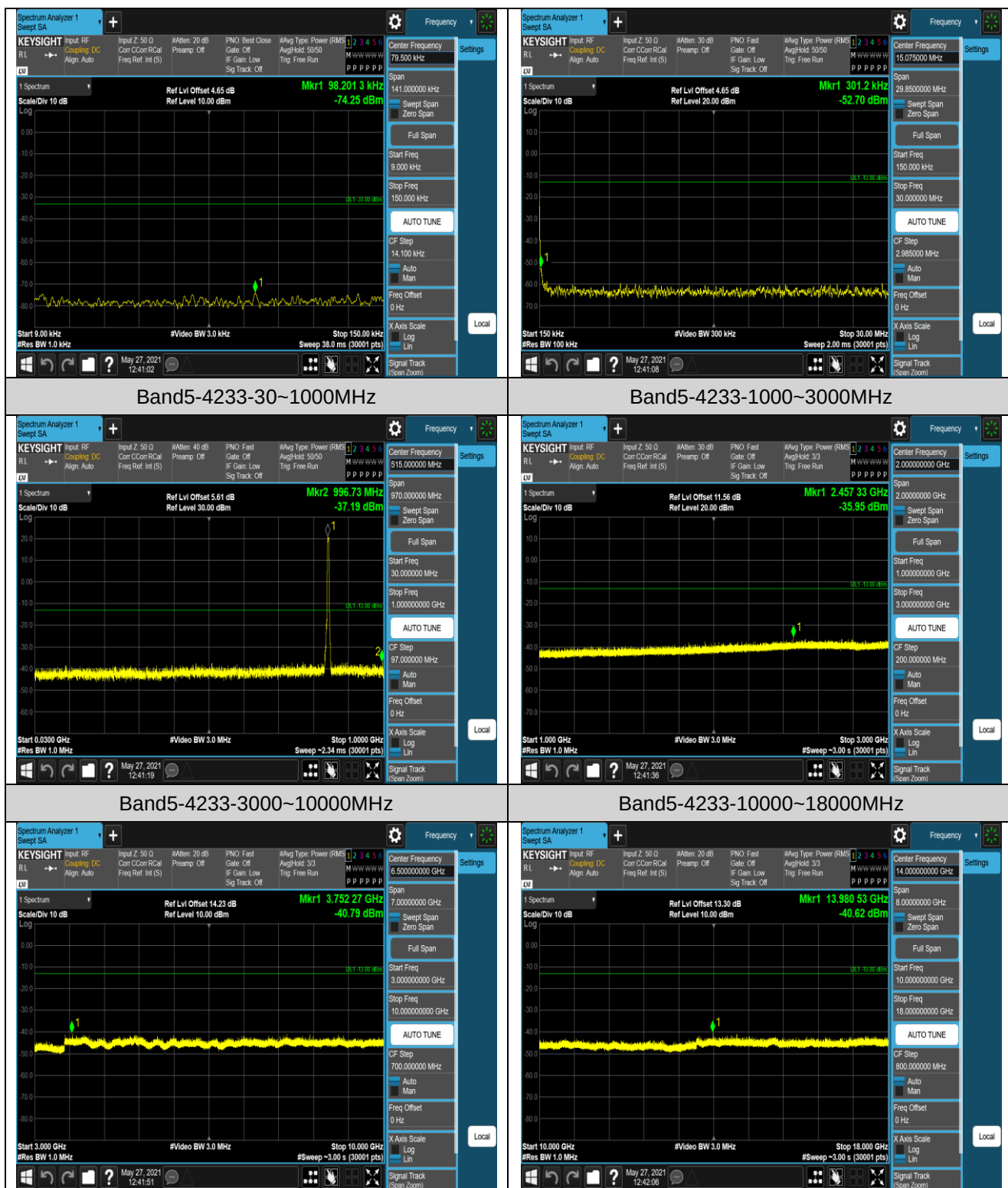












AppendixF:Frequency Stability

Test Result (the worst channel)

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		
3.87	-30	-12.65	-0.006729	±2.5	Pass
	-20	-14.28	-0.007596		
	-10	-12.51	-0.006654		
	0	-14.42	-0.007670		
	10	-9.85	-0.005239		
	20	-11.64	-0.006191		
	30	-13.18	-0.007011		
	40	-11.02	-0.005862		
	50	-13.00	-0.006915		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-11.67	-0.013949	±2.5	Pass
	3.87	-11.59	-0.013854		
	4.45	-12.50	-0.014941		
Note: Only the worst case shown in the 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		
3.87	-30	-14.16	-0.008173	Within authorized band for BAND II	Pass
	-20	-12.57	-0.007255		
	-10	-7.46	-0.004306		
	0	-9.81	-0.005662		
	10	-11.89	-0.006863		
	20	-15.42	-0.008900		
	30	-12.41	-0.007163		
	40	-10.81	-0.006239		
	50	-11.33	-0.006539		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-11.73	-0.006239	Within authorized band for BAND II	Pass
	3.87	-11.40	-0.006064		
	4.45	-10.60	-0.005638		
Note: Only the worst case shown in the report.					

Reference Frequency: WCDMA BAND IV 12.2k RMC Middle Frequency=1413 channel=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	-12.72	-0.015204	Within authorized band for BAND IV	Pass
	-20	-13.40	-0.016017		
	-10	-11.21	-0.013399		
	0	-10.96	-0.013101		
	10	-12.81	-0.015312		
	20	-11.22	-0.013411		
	30	-10.76	-0.012862		
	40	-9.68	-0.011571		
	50	-9.42	-0.011260		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-10.41	-0.006008	Within authorized band for BAND IV	Pass
	3.87	-11.72	-0.006764		
	4.45	-12.91	-0.007451		
Note: Only the worst case shown in the report.					