

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	23.20	-0.68	22.52	33.00
Band2	RMC	9262	23.28	-0.68	22.60	33.00
Band2	Voice	9400	23.12	-0.68	22.44	33.00
Band2	RMC	9400	23.25	-0.68	22.57	33.00
Band2	Voice	9538	23.34	-0.68	22.66	33.00
Band2	RMC	9538	23.36	-0.68	22.68	33.00
Band5	Voice	4132	23.39	-0.68	20.56	38.45
Band5	RMC	4132	23.42	-0.68	20.59	38.45
Band5	Voice	4183	23.15	-0.68	20.32	38.45
Band5	RMC	4183	23.47	-0.68	20.64	38.45
Band5	Voice	4233	23.31	-0.68	20.48	38.45
Band5	RMC	4233	23.45	-0.68	20.62	38.45

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

Test Result(HSDPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	23.02	-0.68	22.34	33.00
Band2	HSDPA	9262	2	22.76	-0.68	22.08	33.00
Band2	HSDPA	9262	3	22.18	-0.68	21.50	33.00
Band2	HSDPA	9262	4	22.49	-0.68	21.81	33.00
Band2	HSDPA	9400	1	23.14	-0.68	22.46	33.00
Band2	HSDPA	9400	2	22.90	-0.68	22.22	33.00
Band2	HSDPA	9400	3	22.77	-0.68	22.09	33.00
Band2	HSDPA	9400	4	22.73	-0.68	22.05	33.00
Band2	HSDPA	9538	1	22.35	-0.68	21.67	33.00
Band2	HSDPA	9538	2	22.32	-0.68	21.64	33.00
Band2	HSDPA	9538	3	22.17	-0.68	21.49	33.00
Band2	HSDPA	9538	4	22.14	-0.68	21.46	33.00

Band5	HSDPA	4132	1	22.46	-0.68	19.63	38.45
Band5	HSDPA	4132	2	22.36	-0.68	19.53	38.45
Band5	HSDPA	4132	3	21.63	-0.68	18.8	38.45
Band5	HSDPA	4132	4	21.62	-0.68	18.79	38.45
Band5	HSDPA	4183	1	21.95	-0.68	19.12	38.45
Band5	HSDPA	4183	2	22.23	-0.68	19.4	38.45
Band5	HSDPA	4183	3	21.66	-0.68	18.83	38.45
Band5	HSDPA	4183	4	21.57	-0.68	18.74	38.45
Band5	HSDPA	4233	1	22.55	-0.68	19.72	38.45
Band5	HSDPA	4233	2	22.73	-0.68	19.9	38.45
Band5	HSDPA	4233	3	21.85	-0.68	19.02	38.45
Band5	HSDPA	4233	4	21.85	-0.68	19.02	38.45

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

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

Test Result(HSUPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	23.02	-0.68	22.34	33.00
Band2	HSDPA	9262	2	22.76	-0.68	22.08	33.00
Band2	HSDPA	9262	3	22.18	-0.68	21.50	33.00
Band2	HSDPA	9262	4	22.49	-0.68	21.81	33.00
Band2	HSDPA	9400	1	23.14	-0.68	22.46	33.00
Band2	HSDPA	9400	2	22.90	-0.68	22.22	33.00
Band2	HSDPA	9400	3	22.77	-0.68	22.09	33.00
Band2	HSDPA	9400	4	22.73	-0.68	22.05	33.00
Band2	HSDPA	9538	1	22.35	-0.68	21.67	33.00
Band2	HSDPA	9538	2	22.32	-0.68	21.64	33.00
Band2	HSDPA	9538	3	22.17	-0.68	21.49	33.00
Band2	HSDPA	9538	4	22.14	-0.68	21.46	33.00
Band2	HSUPA	9262	1	20.64	-0.68	19.96	33.00
Band2	HSUPA	9262	2	21.00	-0.68	20.32	33.00
Band2	HSUPA	9262	3	20.64	-0.68	19.96	33.00
Band2	HSUPA	9262	4	20.87	-0.68	20.19	33.00

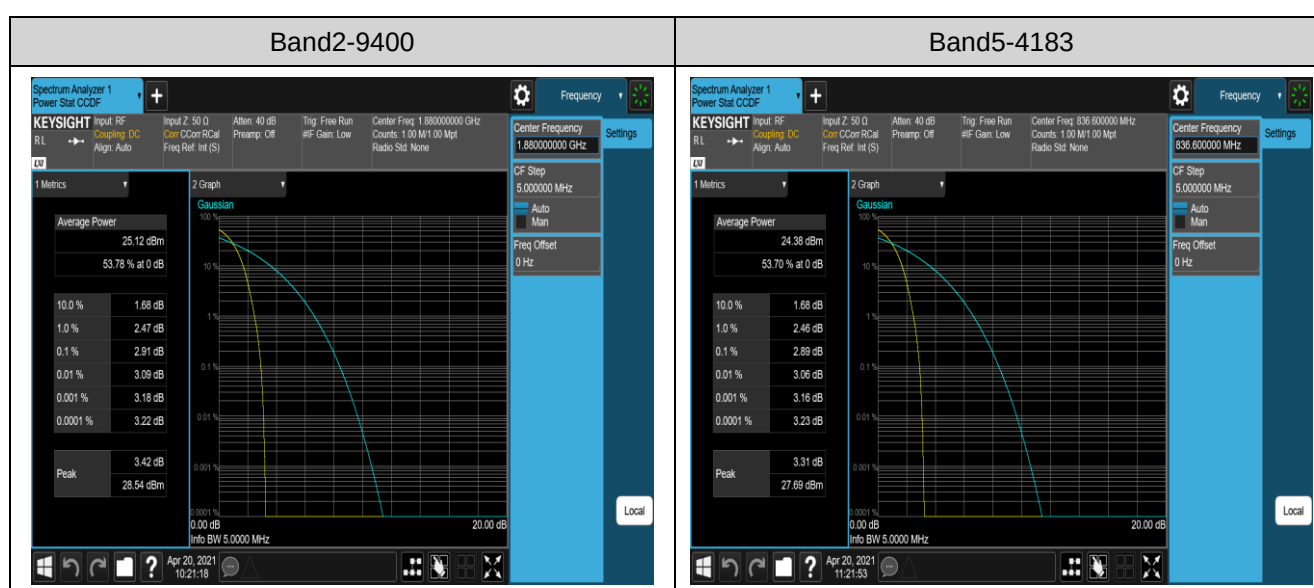
Band2	HSUPA	9262	5	23.04	-0.68	22.36	33.00
Band2	HSUPA	9400	1	20.57	-0.68	19.89	33.00
Band2	HSUPA	9400	2	21.07	-0.68	20.39	33.00
Band2	HSUPA	9400	3	20.59	-0.68	19.91	33.00
Band2	HSUPA	9400	4	20.84	-0.68	20.16	33.00
Band2	HSUPA	9400	5	23.15	-0.68	22.47	33.00
Band2	HSUPA	9538	1	20.09	-0.68	19.41	33.00
Band2	HSUPA	9538	2	20.55	-0.68	19.87	33.00
Band2	HSUPA	9538	3	20.09	-0.68	19.41	33.00
Band2	HSUPA	9538	4	20.41	-0.68	19.73	33.00
Band2	HSUPA	9538	5	22.50	-0.68	21.82	33.00
Band5	HSUPA	4132	1	20.95	-0.68	18.12	38.45
Band5	HSUPA	4132	2	21.03	-0.68	18.2	38.45
Band5	HSUPA	4132	3	20.64	-0.68	17.81	38.45
Band5	HSUPA	4132	4	20.33	-0.68	17.5	38.45
Band5	HSUPA	4132	5	22.17	-0.68	19.34	38.45
Band5	HSUPA	4183	1	20.82	-0.68	17.99	38.45
Band5	HSUPA	4183	2	20.86	-0.68	18.03	38.45
Band5	HSUPA	4183	3	20.42	-0.68	17.59	38.45
Band5	HSUPA	4183	4	20.33	-0.68	17.5	38.45
Band5	HSUPA	4183	5	22.25	-0.68	19.42	38.45
Band5	HSUPA	4233	1	21.14	-0.68	18.31	38.45
Band5	HSUPA	4233	2	21.19	-0.68	18.36	38.45
Band5	HSUPA	4233	3	20.76	-0.68	17.93	38.45
Band5	HSUPA	4233	4	20.57	-0.68	17.74	38.45
Band5	HSUPA	4233	5	22.45	-0.68	19.62	38.45
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	2.91	13	PASS
Band5	4183	2.89	13	PASS

Test Graphs(WCDMA)

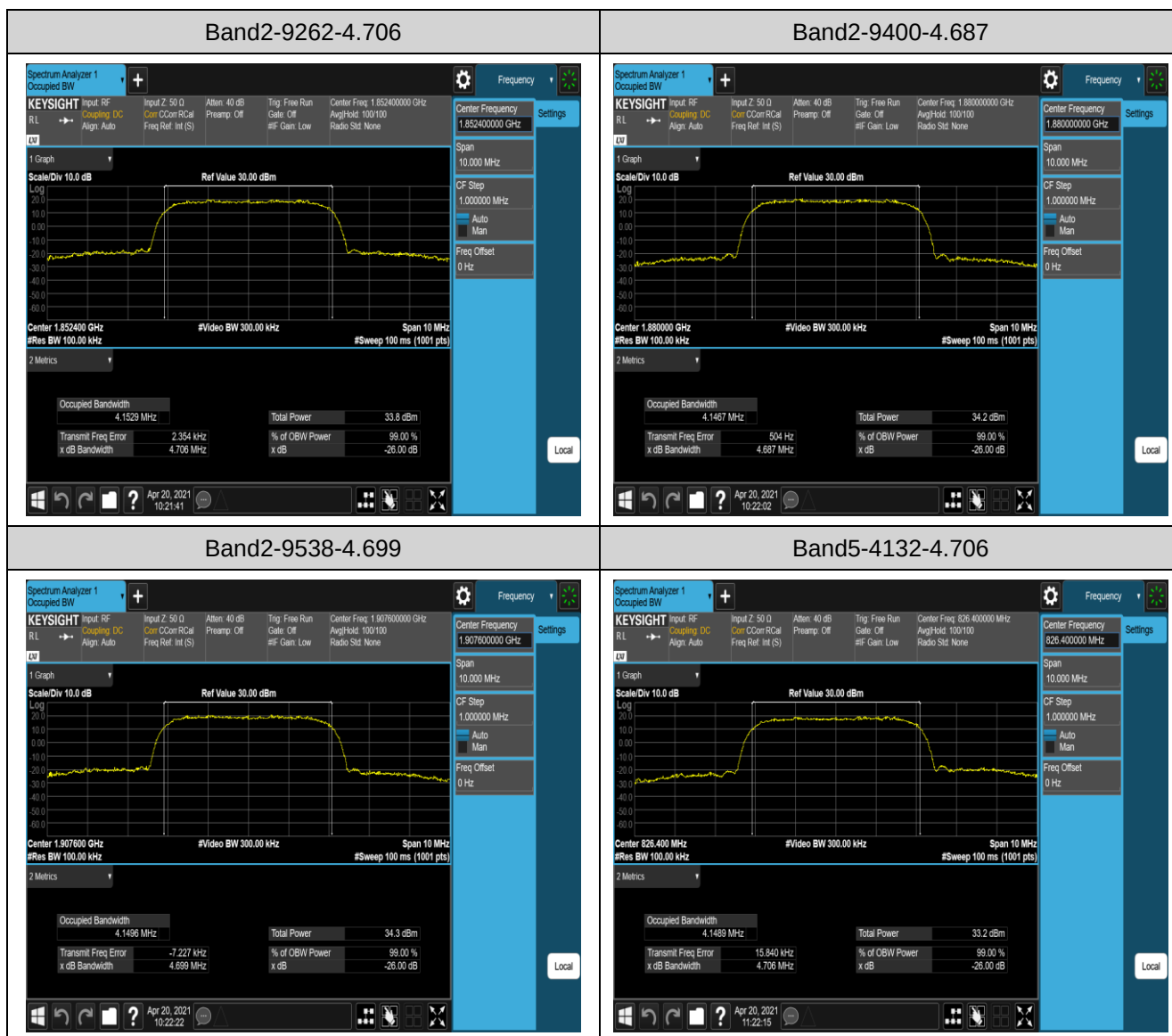


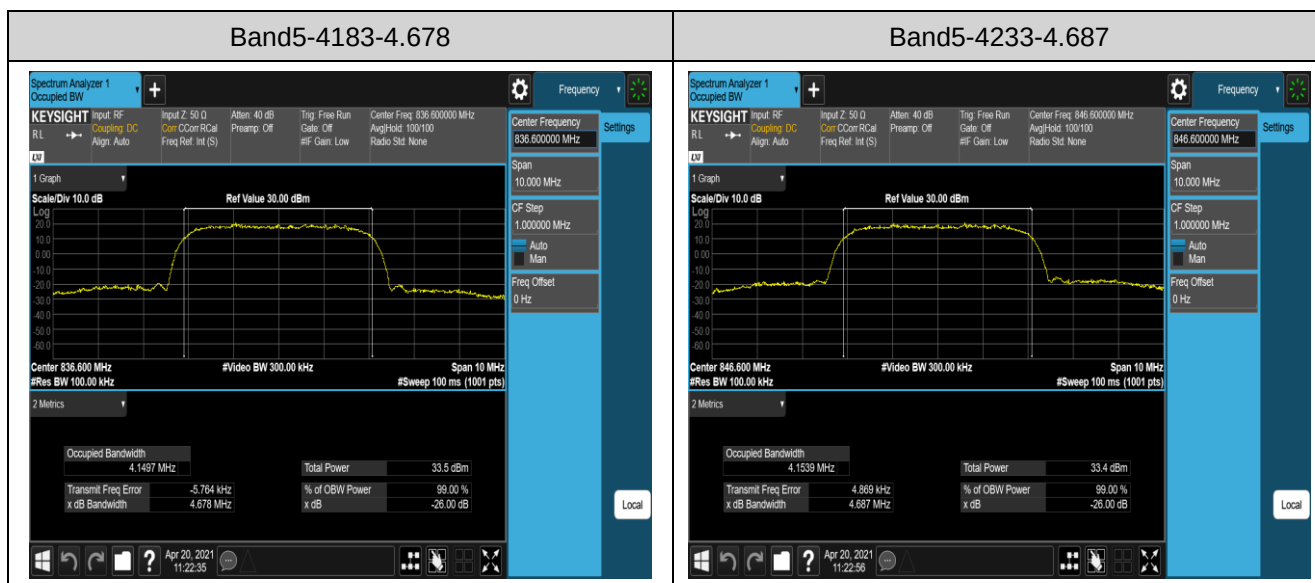
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1529	4.706	---	PASS
Band2	9400	4.1467	4.687	---	PASS
Band2	9538	4.1496	4.699	---	PASS
Band5	4132	4.1489	4.706	---	PASS
Band5	4183	4.1497	4.678	---	PASS
Band5	4233	4.1539	4.687	---	PASS

Test Graphs(WCDMA)



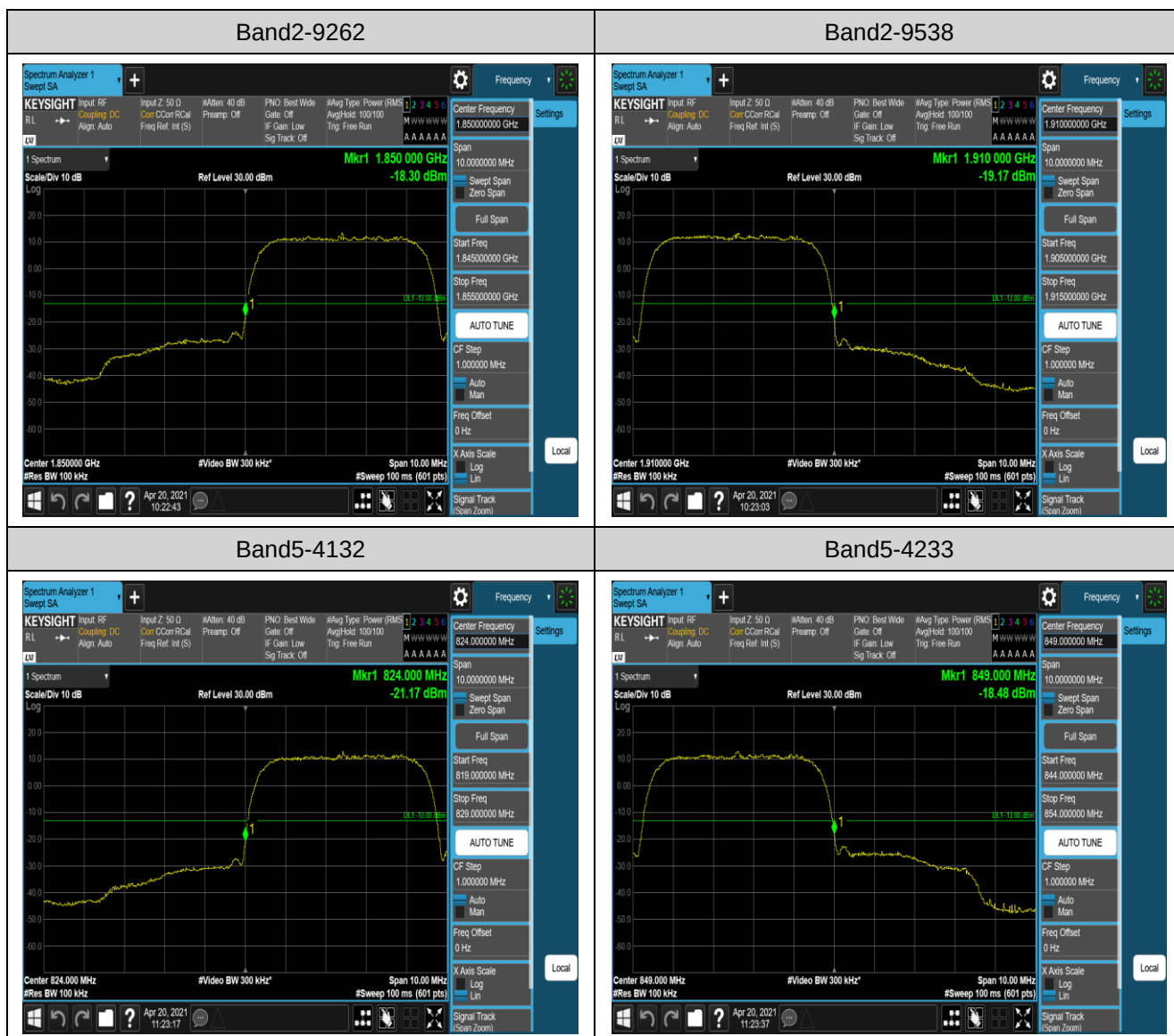


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.30	-13	PASS
Band2	9538	1910.00	-19.17	-13	PASS
Band5	4132	824.00	-21.17	-13	PASS
Band5	4233	849.00	-18.48	-13	PASS

Test Graphs(WCDMA)



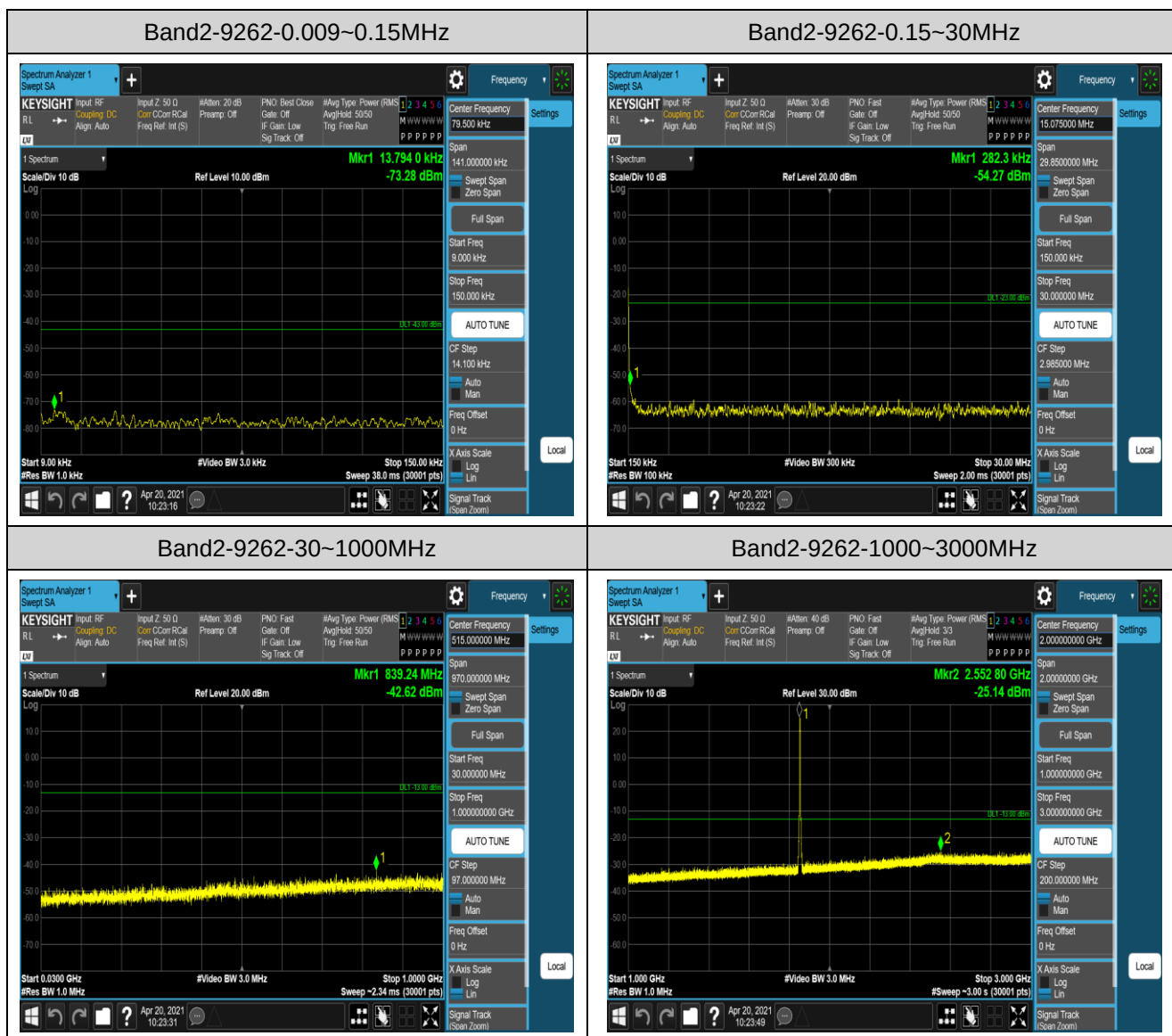
AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-73.28	-43	PASS
Band2	9262	0.15~30MHz	0.28	-54.27	-23	PASS
Band2	9262	30~1000MHz	839.24	-42.62	-13	PASS
Band2	9262	1000~3000MHz	2552.8	-25.14	-13	PASS
Band2	9262	3000~10000MHz	9848.33	-36.01	-13	PASS
Band2	9262	10000~20000MHz	19873.33	-21.87	-13	PASS
Band2	9400	0.009~0.15MHz	0.15	-74.47	-43	PASS
Band2	9400	0.15~30MHz	0.28	-52.32	-23	PASS
Band2	9400	30~1000MHz	887.29	-42.44	-13	PASS
Band2	9400	1000~3000MHz	2754.27	-24.96	-13	PASS
Band2	9400	3000~10000MHz	9951.23	-34.92	-13	PASS
Band2	9400	10000~20000MHz	19485.33	-21.67	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-80.62	-43	PASS
Band2	9538	0.15~30MHz	0.3	-54.21	-23	PASS
Band2	9538	30~1000MHz	752.13	-43.3	-13	PASS
Band2	9538	1000~3000MHz	2597.2	-25.4	-13	PASS
Band2	9538	3000~10000MHz	9110.77	-35.92	-13	PASS
Band2	9538	10000~20000MHz	19470.33	-21.51	-13	PASS
Band5	4132	0.009~0.15MHz	0.12	-74.35	-33	PASS
Band5	4132	0.15~30MHz	0.28	-53.35	-13	PASS
Band5	4132	30~1000MHz	978.47	-33.96	-13	PASS
Band5	4132	1000~3000MHz	2952.6	-34.39	-13	PASS
Band5	4132	3000~10000MHz	4138.2	-27.98	-13	PASS
Band5	4132	10000~18000MHz	16817.87	-38.41	-13	PASS
Band5	4183	0.009~0.15MHz	0.02	-72.58	-33	PASS
Band5	4183	0.15~30MHz	0.28	-54.5	-13	PASS
Band5	4183	30~1000MHz	996.51	-34.19	-13	PASS
Band5	4183	1000~3000MHz	2590.07	-32.98	-13	PASS
Band5	4183	3000~10000MHz	4189.07	-29.49	-13	PASS
Band5	4183	10000~18000MHz	17566.13	-38.5	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-73.78	-33	PASS

Band5	4233	0.15~30MHz	0.28	-55.46	-13	PASS
Band5	4233	30~1000MHz	961.46	-32.72	-13	PASS
Band5	4233	1000~3000MHz	2980.13	-33.92	-13	PASS
Band5	4233	3000~10000MHz	4238.3	-26.91	-13	PASS
Band5	4233	10000~18000MHz	17639.2	-38.4	-13	PASS

Test Graphs(WCDMA)



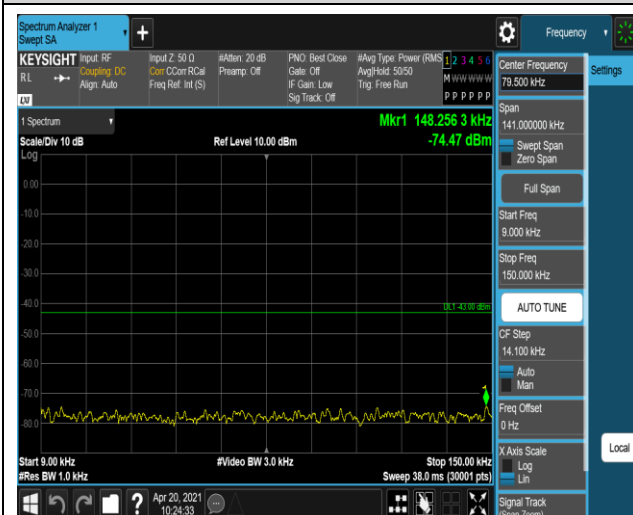
Band2-9262-3000~10000MHz



Band2-9262-10000~20000MHz



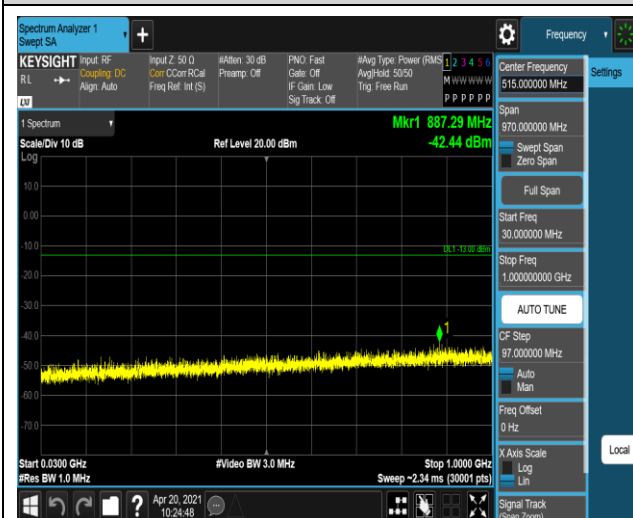
Band2-9400-0.009~0.15MHz



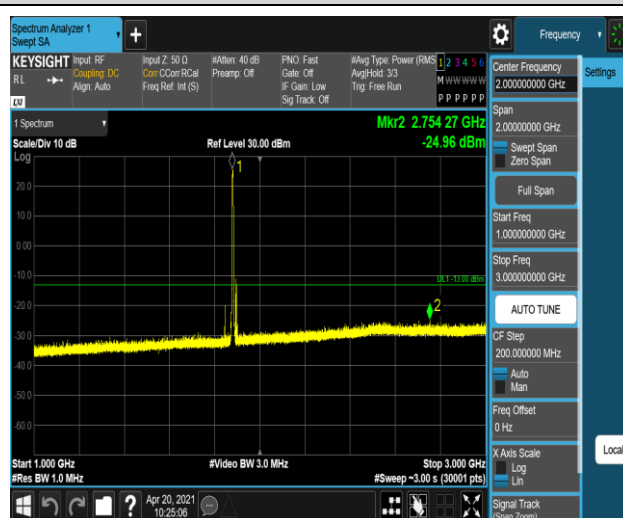
Band2-9400-0.15~30MHz



Band2-9400-30~1000MHz



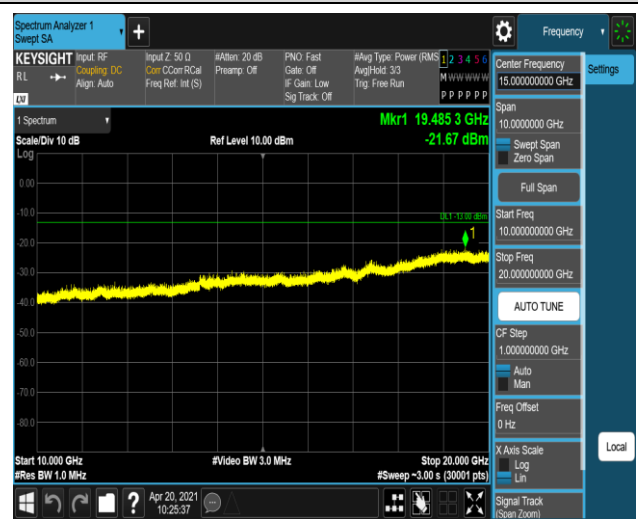
Band2-9400-1000~3000MHz



Band2-9400-3000~10000MHz



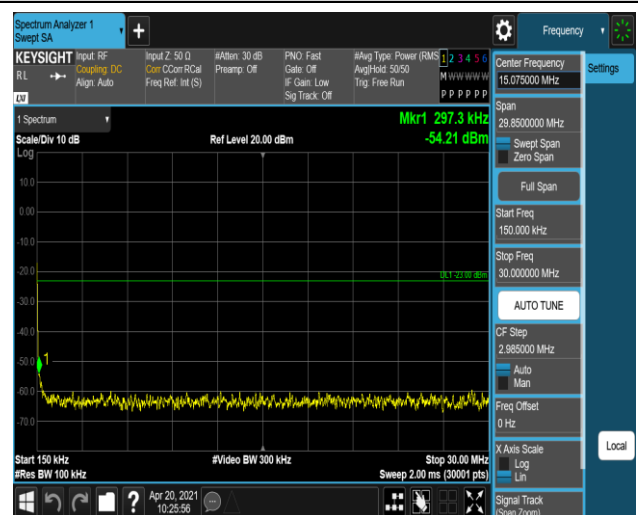
Band2-9400-10000~20000MHz



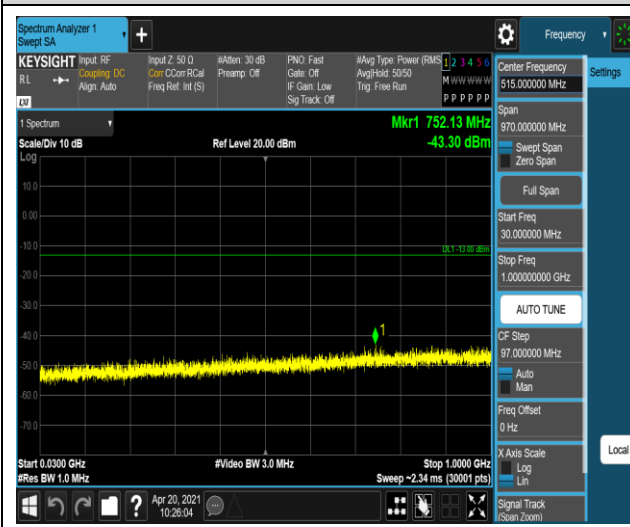
Band2-9538-0.009~0.15MHz



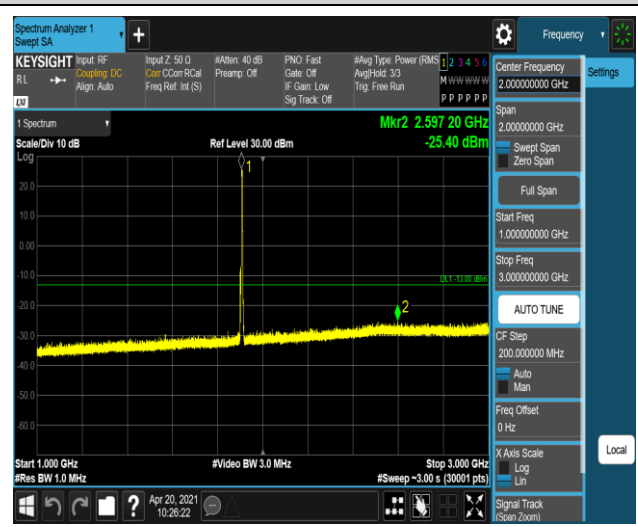
Band2-9538-0.15~30MHz



Band2-9538-30~1000MHz



Band2-9538-1000~3000MHz



Band2-9538-3000~10000MHz



Band2-9538-10000~20000MHz



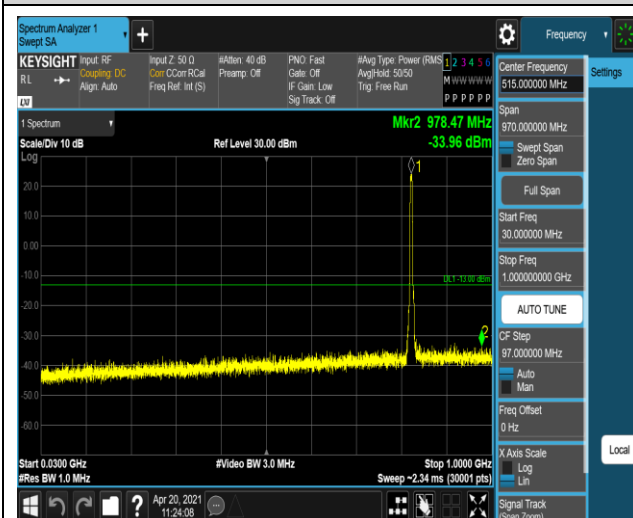
Band5-4132-0.009~0.15MHz



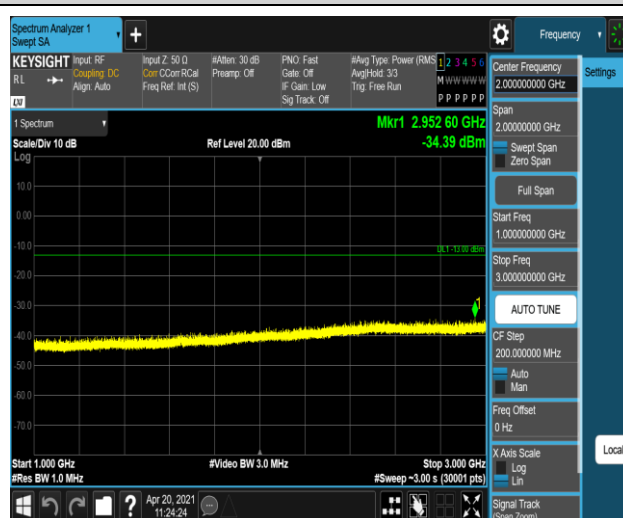
Band5-4132-0.15~30MHz



Band5-4132-30~1000MHz



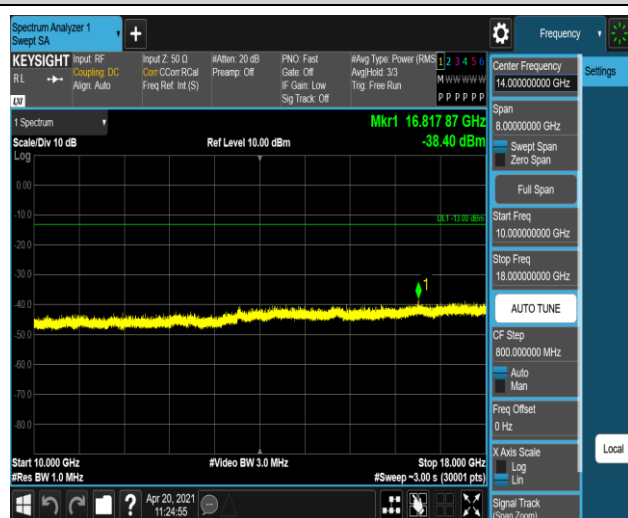
Band5-4132-1000~3000MHz



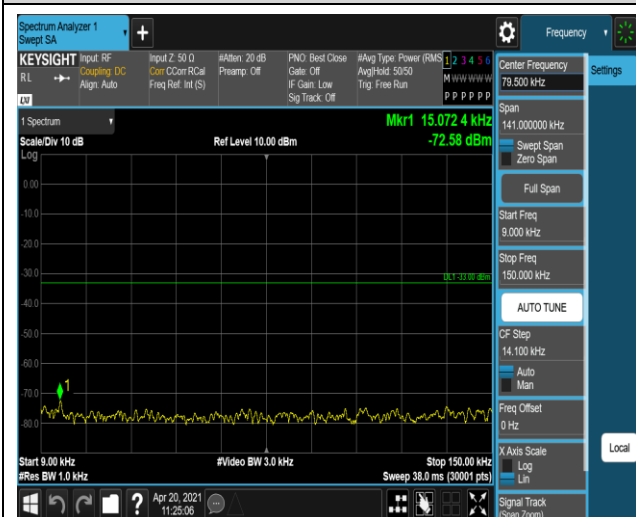
Band5-4132-3000~10000MHz



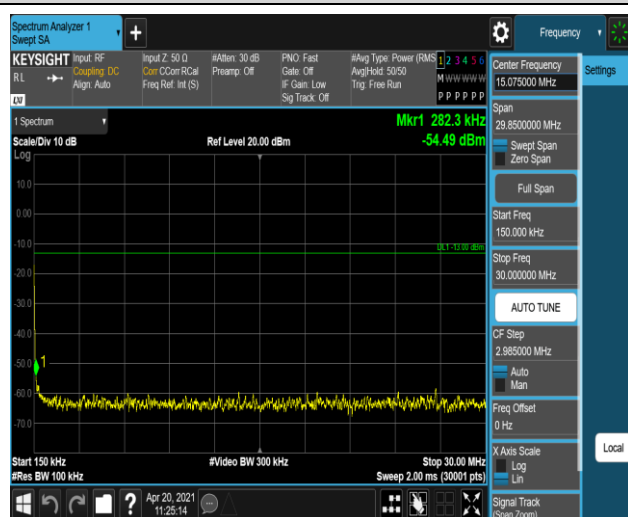
Band5-4132-10000~18000MHz



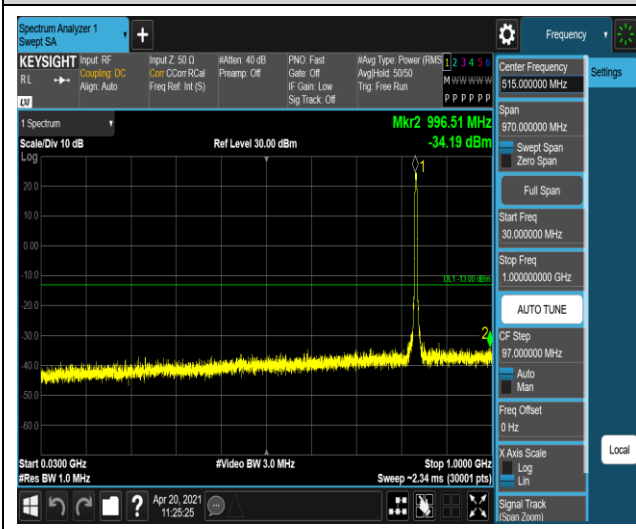
Band5-4183-0.009~0.15MHz



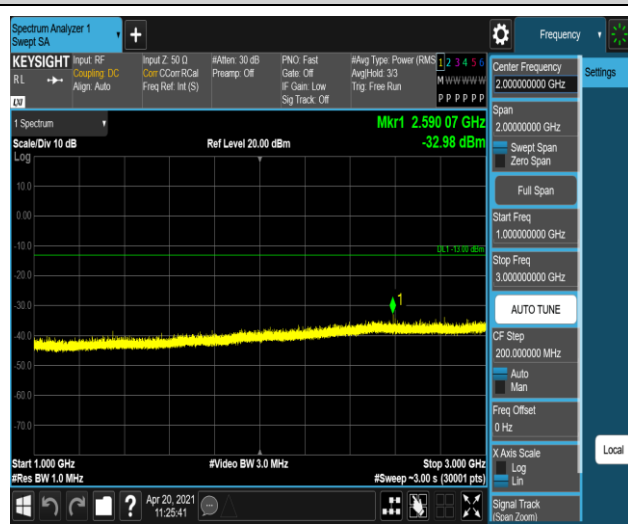
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



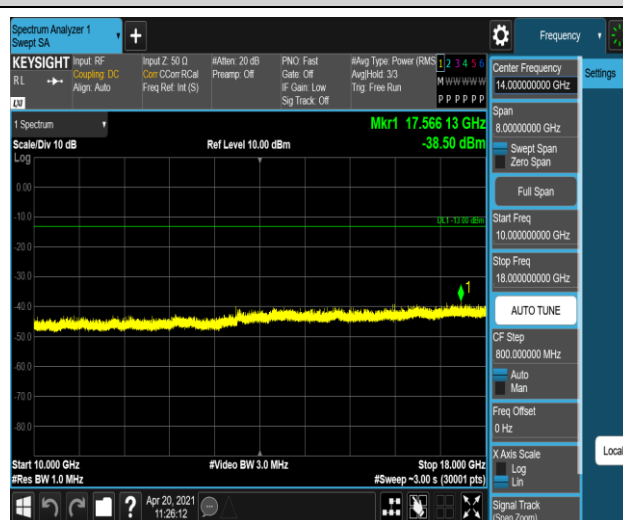
Band5-4183-1000~3000MHz



Band5-4183-3000~10000MHz



Band5-4183-10000~18000MHz



Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~3000MHz





Appendix F: Frequency Stability

Test Result (the worst channel)

Temperature					
Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequenc=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	0.03	0.000036	±2.5	Pass
	-20	-0.64	-0.000765		
	-10	0.21	0.000251		
	0	0.12	0.000143		
	10	-2.24	-0.002678		
	20	-2.37	-0.002833		
	30	0.33	0.000394		
	40	0.95	0.001136		
	50	-0.18	-0.000215		
Reference Frequency: WCDMA BAND II 12.2k RMC Middle channel=9400 Frequenc=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	-0.66	-0.000351	Within authorized band for WCDMA 1900	Pass
	-20	-0.38	-0.000202		
	-10	-0.16	-0.000085		
	0	1.85	0.000984		
	10	4.48	0.002383		
	20	-4.16	-0.002213		
	30	9.73	0.005176		
	40	-0.26	-0.000138		
	50	-1.22	-0.000649		
	Note: Only the worst case shown in the report.				

Voltage					
Reference Frequency: UMTS 850 12.2k RMC Middle channel=4183 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.98	0.004245	±2.5	Pass
	3.80	2.20	0.001170		
	4.20	-4.34	-0.002309		
Reference Frequency: UMTS 1900 12.2k RMC Middle channel=9400 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.17	0.002594	Within authorized band for WCDMA 1900	Pass
	3.80	-0.56	-0.000669		
	4.20	-0.04	-0.000048		
Note: Only the worst case shown in the report.					