

## 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	22.67	20.97	33	PASS
Band2	TestMode	9262	22.71	21.01	33	PASS
Band2	Voice	9400	22.68	20.98	33	PASS
Band2	TestMode	9400	22.72	21.02	33	PASS
Band2	Voice	9538	22.76	21.06	33	PASS
Band2	TestMode	9538	22.89	21.19	33	PASS
Band4	Voice	1312	23.19	21.69	30	PASS
Band4	TestMode	1312	23.25	21.75	30	PASS
Band4	Voice	1413	23.09	21.59	30	PASS
Band4	TestMode	1413	23.15	21.65	30	PASS
Band4	Voice	1513	23.12	21.62	30	PASS
Band4	TestMode	1513	23.19	21.69	30	PASS
Band5	Voice	4132	24.04	19.79	38.5	PASS
Band5	TestMode	4132	24.13	19.88	38.5	PASS
Band5	Voice	4183	24.05	19.80	38.5	PASS
Band5	TestMode	4183	24.16	19.91	38.5	PASS
Band5	Voice	4233	24.08	19.83	38.5	PASS
Band5	TestMode	4233	24.15	19.90	38.5	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	ConductedPower (dBm)	ERP/EIRP (dBm)	ERP/EIRPLimit (dBm)	Verdict
Band2	9262	1	21.64	19.94	33	PASS
Band2	9262	2	21.23	19.53	33	PASS
Band2	9262	3	21.14	19.44	33	PASS
Band2	9262	4	21.12	19.42	33	PASS
Band2	9400	1	21.68	19.98	33	PASS
Band2	9400	2	21.24	19.54	33	PASS
Band2	9400	3	21.11	19.41	33	PASS
Band2	9400	4	21.12	19.42	33	PASS
Band2	9538	1	21.84	20.14	33	PASS
Band2	9538	2	21.41	19.71	33	PASS
Band2	9538	3	21.30	19.60	33	PASS
Band2	9538	4	21.32	19.62	33	PASS

Band4	1312	1	22.30	20.80	30	PASS
Band4	1312	2	21.74	20.24	30	PASS
Band4	1312	3	21.80	20.30	30	PASS
Band4	1312	4	21.78	20.28	30	PASS
Band4	1413	1	22.18	20.68	30	PASS
Band4	1413	2	21.64	20.14	30	PASS
Band4	1413	3	21.62	20.12	30	PASS
Band4	1413	4	21.62	20.12	30	PASS
Band4	1513	1	22.16	20.66	30	PASS
Band4	1513	2	21.69	20.19	30	PASS
Band4	1513	3	21.72	20.22	30	PASS
Band4	1513	4	21.67	20.17	30	PASS
Band5	4132	1	23.11	18.86	38.5	PASS
Band5	4132	2	22.64	18.39	38.5	PASS
Band5	4132	3	22.60	18.35	38.5	PASS
Band5	4132	4	22.54	18.29	38.5	PASS
Band5	4183	1	23.19	18.94	38.5	PASS
Band5	4183	2	22.76	18.51	38.5	PASS
Band5	4183	3	22.63	18.38	38.5	PASS
Band5	4183	4	22.61	18.36	38.5	PASS
Band5	4233	1	23.11	18.86	38.5	PASS
Band5	4233	2	22.68	18.43	38.5	PASS
Band5	4233	3	22.60	18.35	38.5	PASS
Band5	4233	4	22.57	18.32	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.62	17.92	33	PASS
Band2	9262	2	20.14	18.44	33	PASS
Band2	9262	3	20.64	18.94	33	PASS
Band2	9262	4	19.68	17.98	33	PASS
Band2	9262	5	21.62	19.92	33	PASS
Band2	9400	1	19.63	17.93	33	PASS
Band2	9400	2	20.18	18.48	33	PASS
Band2	9400	3	20.67	18.97	33	PASS
Band2	9400	4	19.67	17.97	33	PASS
Band2	9400	5	21.64	19.94	33	PASS
Band2	9538	1	19.78	18.08	33	PASS
Band2	9538	2	20.30	18.60	33	PASS
Band2	9538	3	20.80	19.10	33	PASS

Band2	9538	4	19.81	18.11	33	PASS
Band2	9538	5	21.80	20.10	33	PASS
Band4	1312	1	20.31	18.81	30	PASS
Band4	1312	2	20.81	19.31	30	PASS
Band4	1312	3	21.26	19.76	30	PASS
Band4	1312	4	20.30	18.80	30	PASS
Band4	1312	5	22.31	20.81	30	PASS
Band4	1413	1	20.17	18.67	30	PASS
Band4	1413	2	20.67	19.17	30	PASS
Band4	1413	3	21.16	19.66	30	PASS
Band4	1413	4	20.17	18.67	30	PASS
Band4	1413	5	22.18	20.68	30	PASS
Band4	1513	1	20.22	18.72	30	PASS
Band4	1513	2	20.70	19.20	30	PASS
Band4	1513	3	21.19	19.69	30	PASS
Band4	1513	4	20.23	18.73	30	PASS
Band4	1513	5	22.17	20.67	30	PASS
Band5	4132	1	21.11	16.86	38.5	PASS
Band5	4132	2	21.60	17.35	38.5	PASS
Band5	4132	3	22.13	17.88	38.5	PASS
Band5	4132	4	21.15	16.90	38.5	PASS
Band5	4132	5	23.11	18.86	38.5	PASS
Band5	4183	1	21.18	16.93	38.5	PASS
Band5	4183	2	21.68	17.43	38.5	PASS
Band5	4183	3	22.20	17.95	38.5	PASS
Band5	4183	4	21.22	16.97	38.5	PASS
Band5	4183	5	23.19	18.94	38.5	PASS
Band5	4233	1	21.15	16.90	38.5	PASS
Band5	4233	2	21.61	17.36	38.5	PASS
Band5	4233	3	22.10	17.85	38.5	PASS
Band5	4233	4	21.17	16.92	38.5	PASS
Band5	4233	5	23.13	18.88	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2)

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

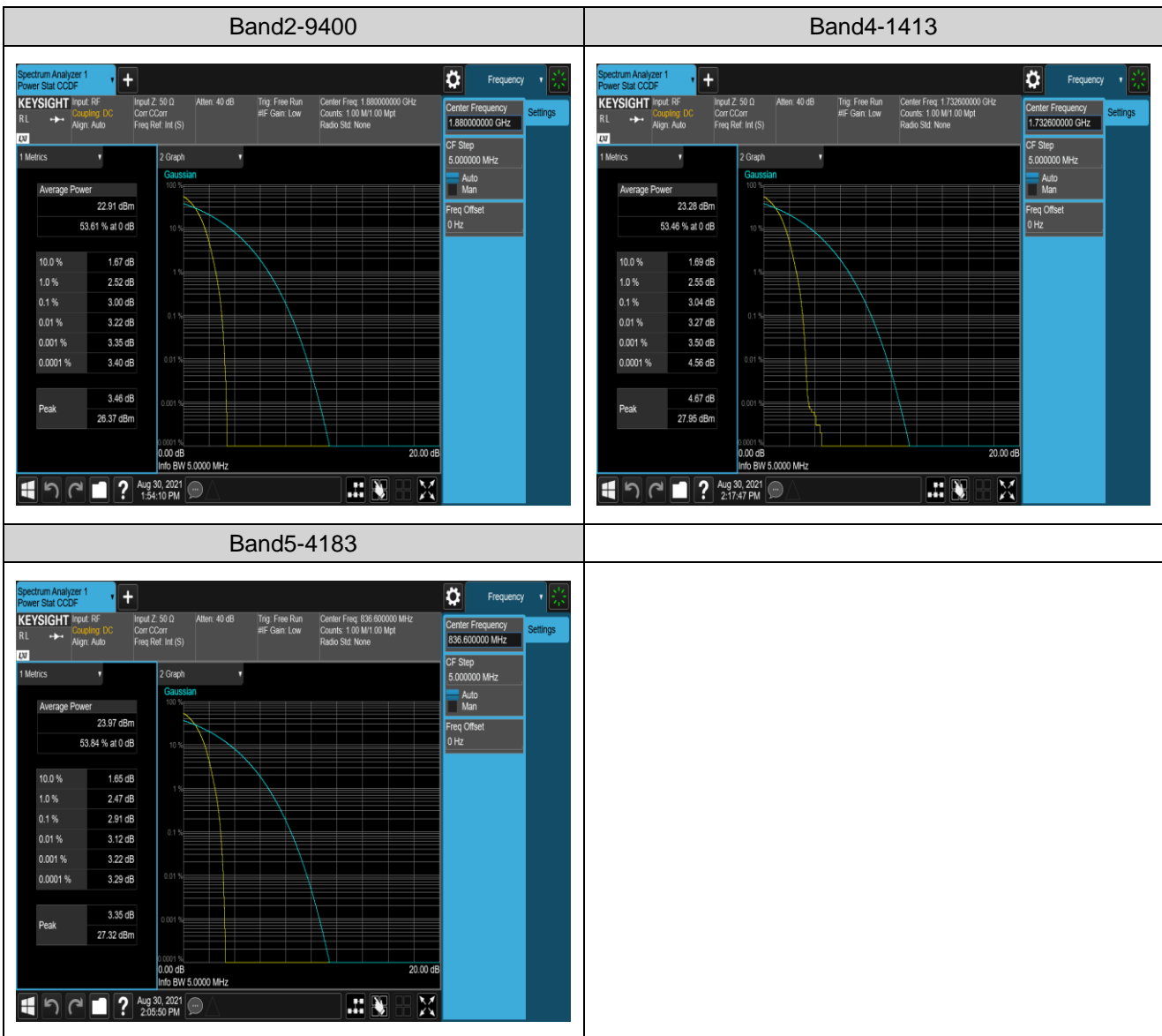
## Appendix B: Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3	13	PASS
Band4	1413	3.04	13	PASS
Band5	4183	2.91	13	PASS

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

### Test Graphs(WCDMA)

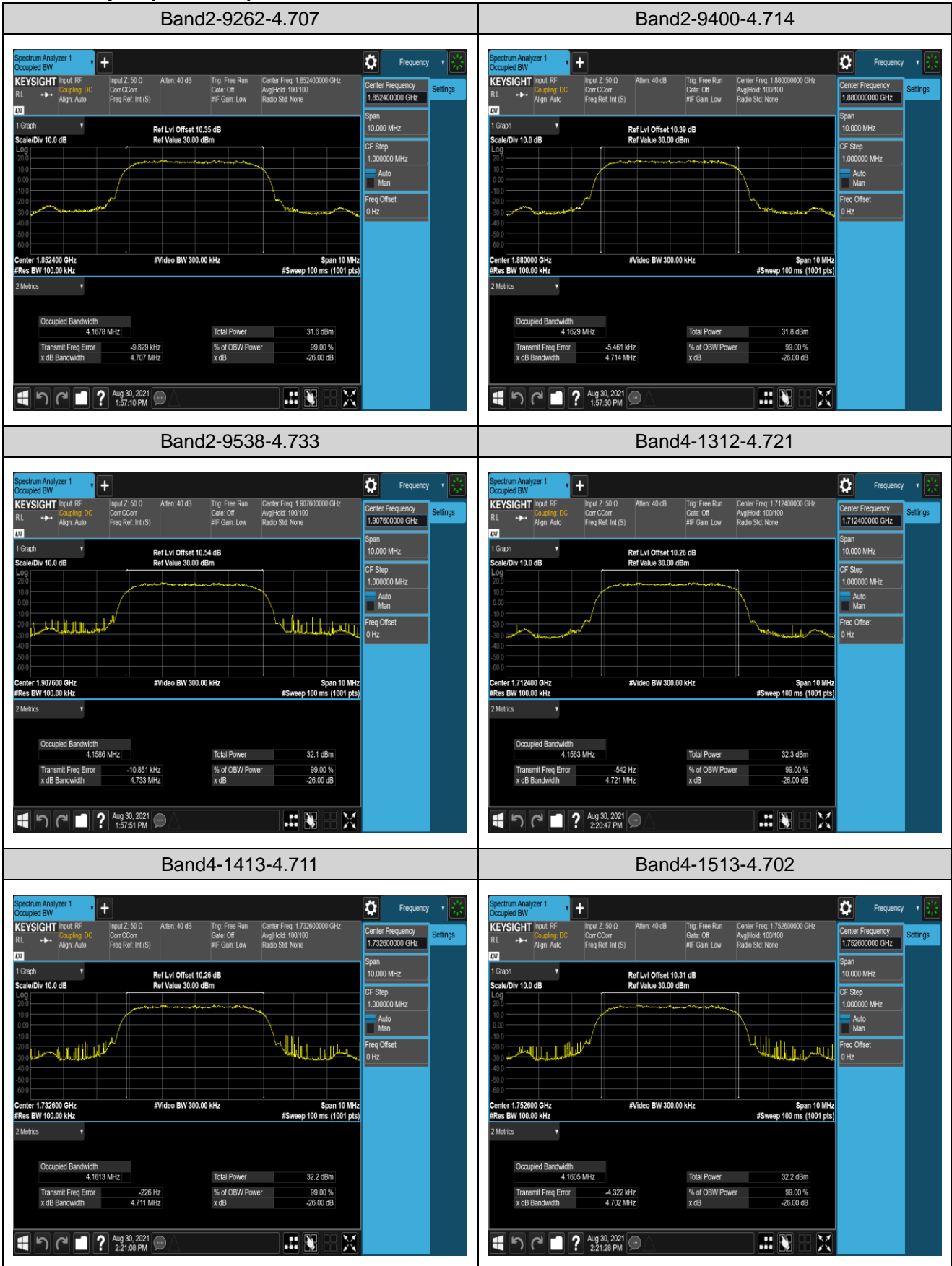


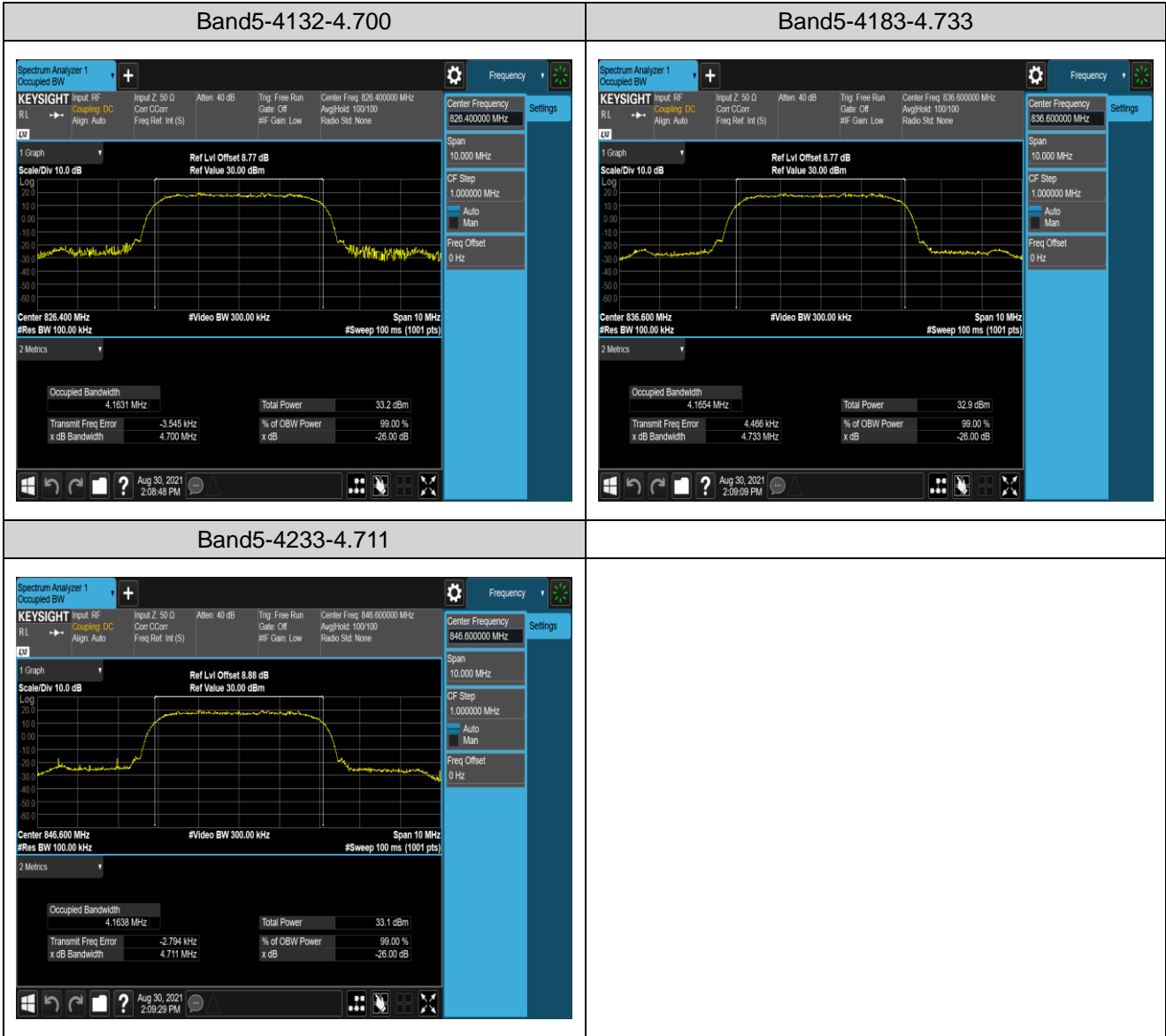
## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1678	4.707	---	PASS
Band2	9400	4.1629	4.714	---	PASS
Band2	9538	4.1586	4.733	---	PASS
Band4	1312	4.1563	4.721	---	PASS
Band4	1413	4.1613	4.711	---	PASS
Band4	1513	4.1605	4.702	---	PASS
Band5	4132	4.1631	4.700	---	PASS
Band5	4183	4.1654	4.733	---	PASS
Band5	4233	4.1638	4.711	---	PASS

Test Graphs(WCDMA)





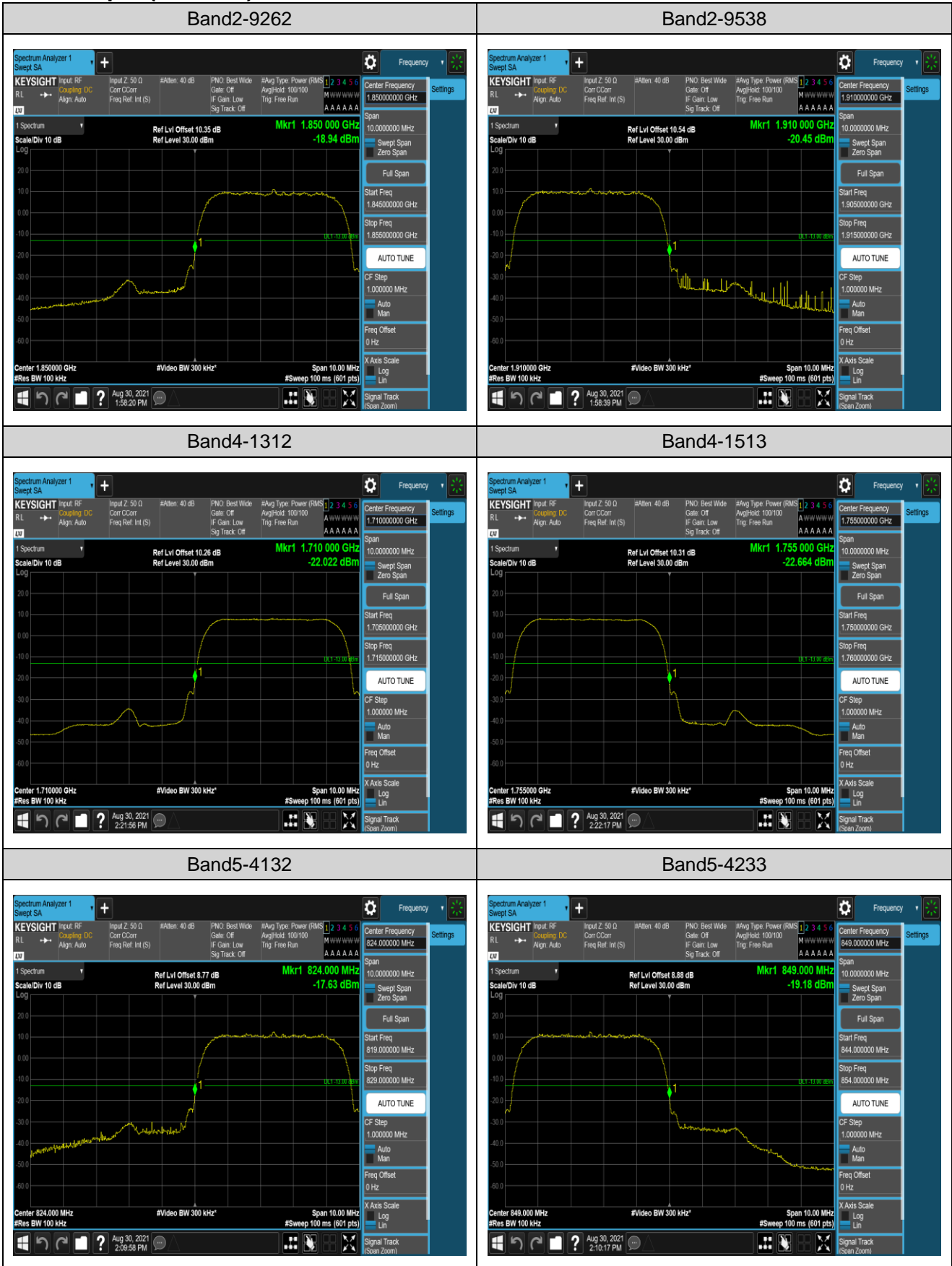
## AppendixD:Band Edge

### Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.94	-13	PASS
Band2	9538	1910.00	-20.45	-13	PASS
Band4	1312	1710.00	-22.02	-13	PASS
Band4	1513	1755.00	-22.66	-13	PASS
Band5	4132	824.00	-17.63	-13	PASS
Band5	4233	849.00	-19.18	-13	PASS



Test Graphs(WCDMA)

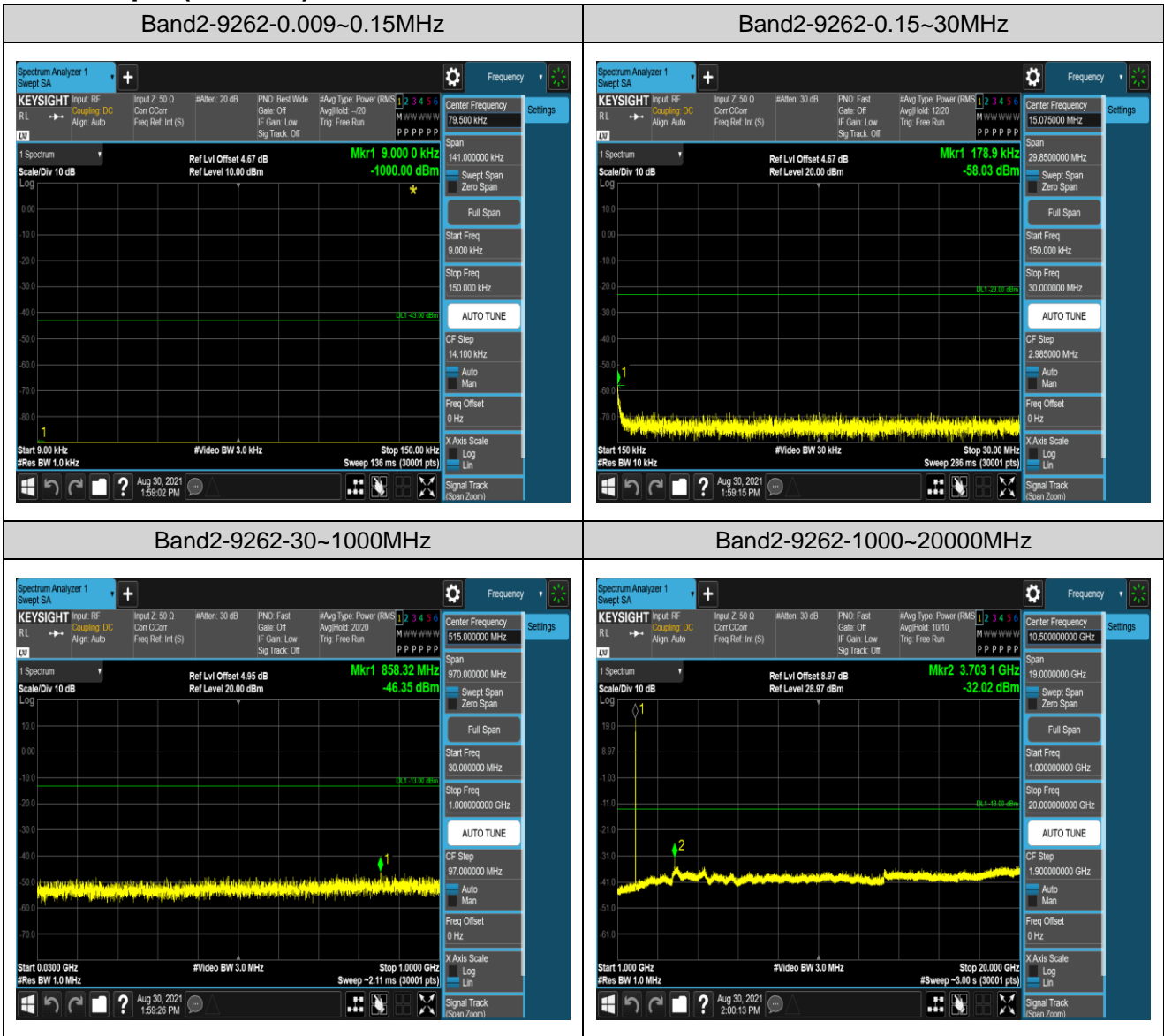


## Appendix E: Conducted Spurious Emission

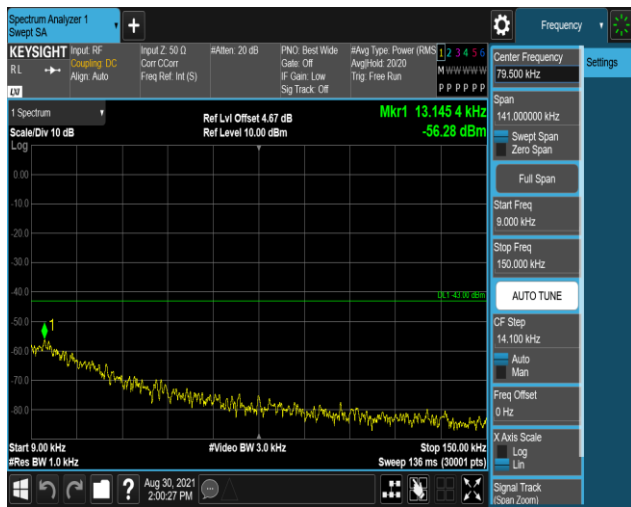
### Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-1000	-43	PASS
Band2	9262	0.15~30MHz	0.18	-60.05	-23	PASS
Band2	9262	30~1000MHz	858.32	-46.35	-13	PASS
Band2	9262	1000~20000MHz	3703.07	-32.03	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.28	-43	PASS
Band2	9400	0.15~30MHz	0.15	-56.54	-23	PASS
Band2	9400	30~1000MHz	880.95	-46.01	-13	PASS
Band2	9400	1000~20000MHz	3757.53	-30.82	-13	PASS
Band2	9538	0.009~0.15MHz	0.02	-57.04	-43	PASS
Band2	9538	0.15~30MHz	0.15	-55.89	-23	PASS
Band2	9538	30~1000MHz	836.2	-46.27	-13	PASS
Band2	9538	1000~20000MHz	3817.7	-30.06	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.34	-43	PASS
Band4	1312	0.15~30MHz	0.16	-57.08	-23	PASS
Band4	1312	30~1000MHz	703.79	-46.52	-13	PASS
Band4	1312	1000~20000MHz	19057.6	-34.5	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-54.67	-43	PASS
Band4	1413	0.15~30MHz	0.18	-56.97	-23	PASS
Band4	1413	30~1000MHz	979.05	-46.92	-13	PASS
Band4	1413	1000~20000MHz	3701.8	-33.89	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.88	-43	PASS
Band4	1513	0.15~30MHz	0.16	-55.42	-23	PASS
Band4	1513	30~1000MHz	872.19	-46.68	-13	PASS
Band4	1513	1000~20000MHz	19121.57	-34.26	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-57.1	-33	PASS
Band5	4132	0.15~30MHz	0.16	-57.47	-13	PASS
Band5	4132	30~1000MHz	716.24	-55.42	-13	PASS
Band5	4132	1000~10000MHz	3725.5	-34.63	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.07	-33	PASS
Band5	4183	0.15~30MHz	0.15	-53.85	-13	PASS
Band5	4183	30~1000MHz	999.39	-55.41	-13	PASS
Band5	4183	1000~10000MHz	3771.4	-34.66	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-56.65	-33	PASS
Band5	4233	0.15~30MHz	0.15	-57.65	-13	PASS
Band5	4233	30~1000MHz	989.62	-54.34	-13	PASS
Band5	4233	1000~10000MHz	3841	-34.9	-13	PASS

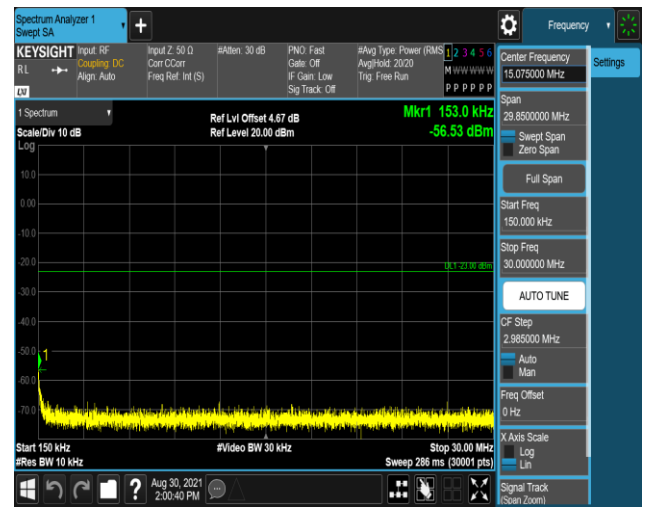
### Test Graphs(WCDMA)



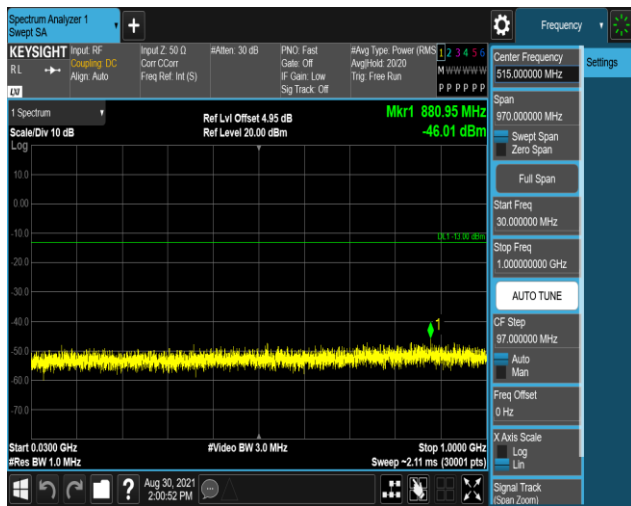
Band2-9400-0.009~0.15MHz



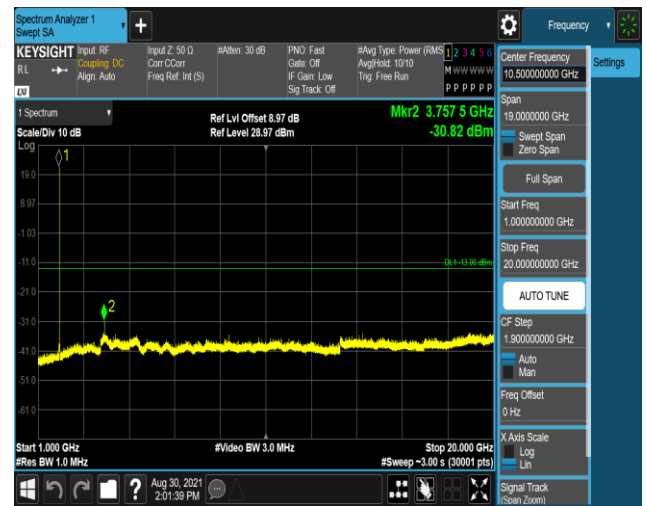
Band2-9400-0.15~30MHz



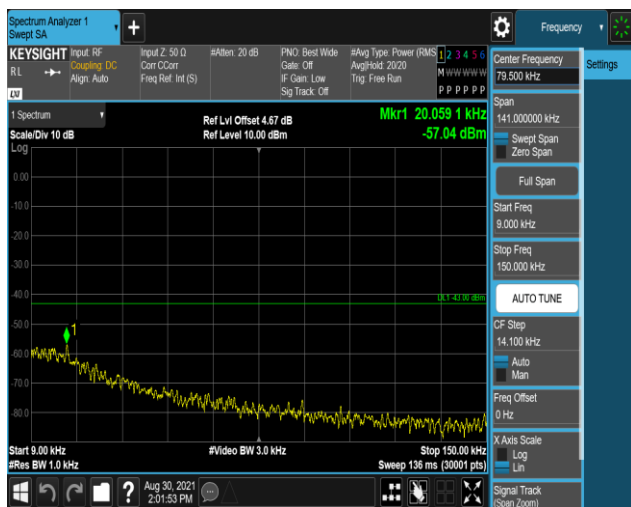
Band2-9400-30~1000MHz



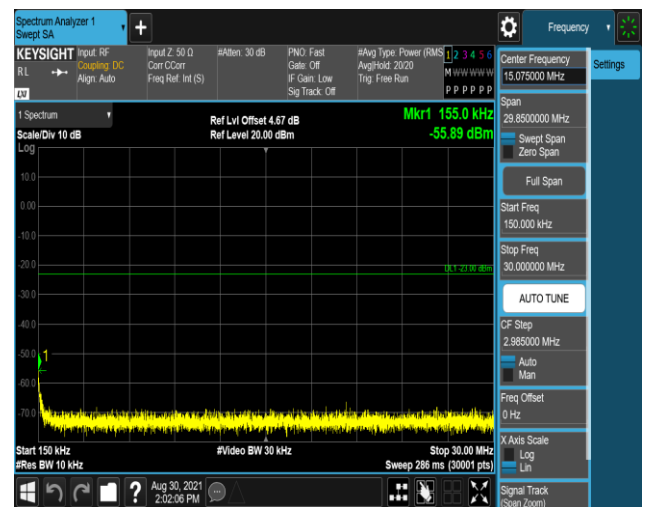
Band2-9400-1000~20000MHz



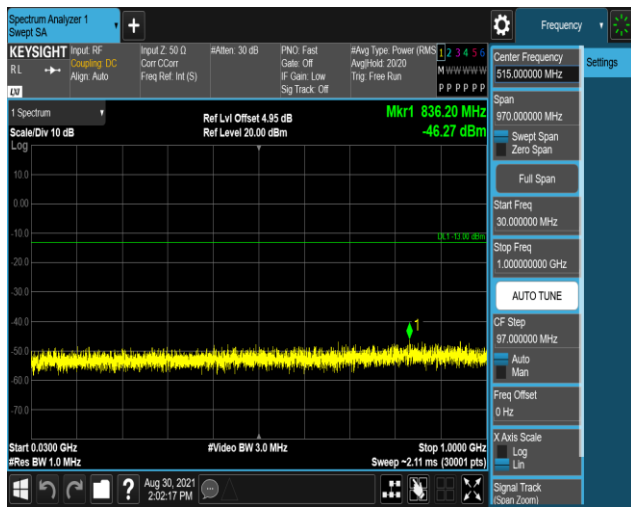
Band2-9538-0.009~0.15MHz



Band2-9538-0.15~30MHz



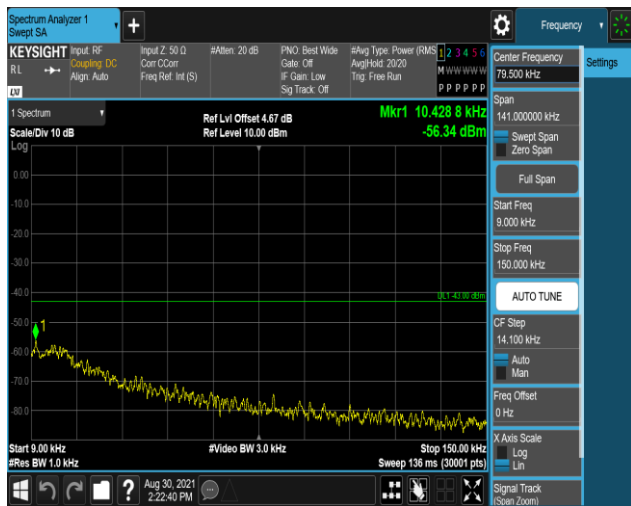
Band2-9538-30~1000MHz



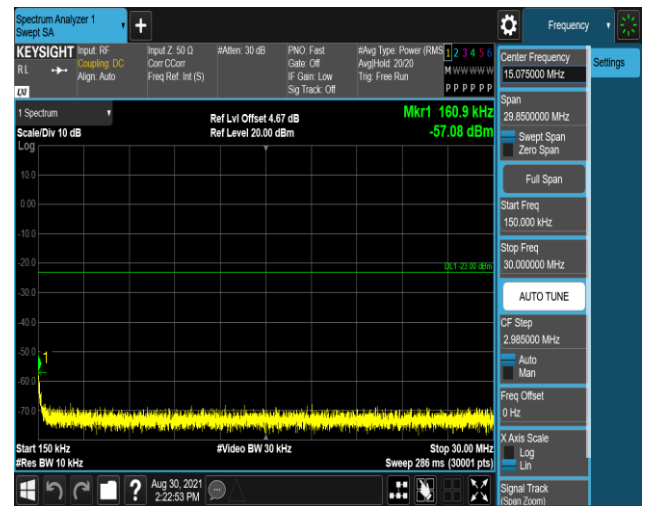
Band2-9538-1000~20000MHz



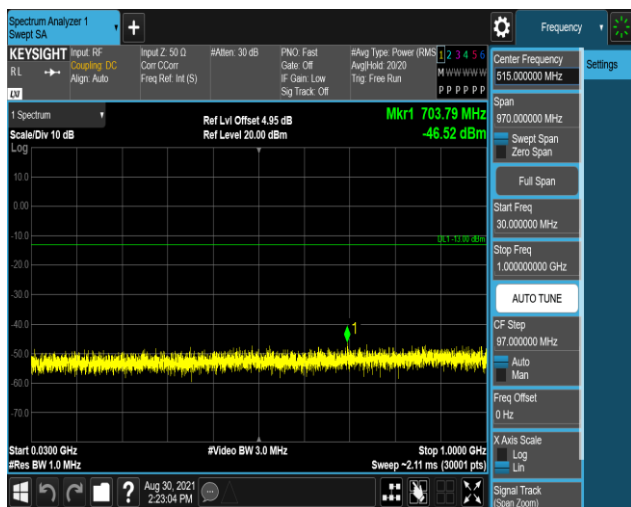
Band4-1312-0.009~0.15MHz



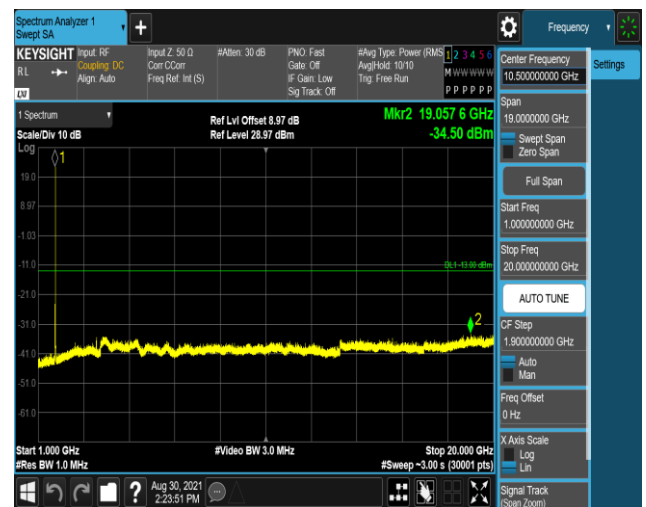
Band4-1312-0.15~30MHz



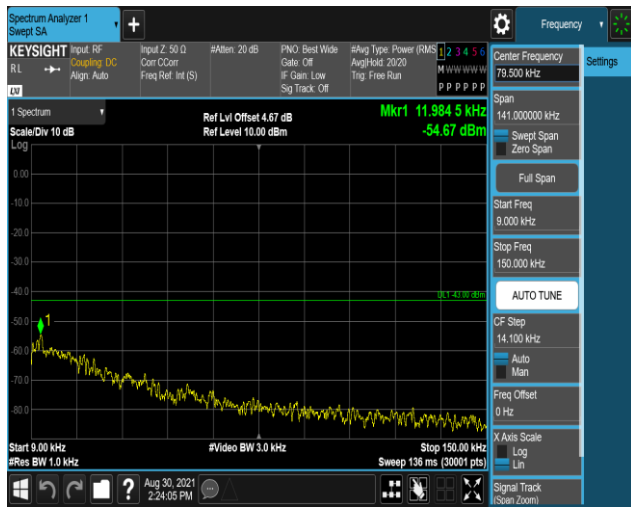
Band4-1312-30~1000MHz



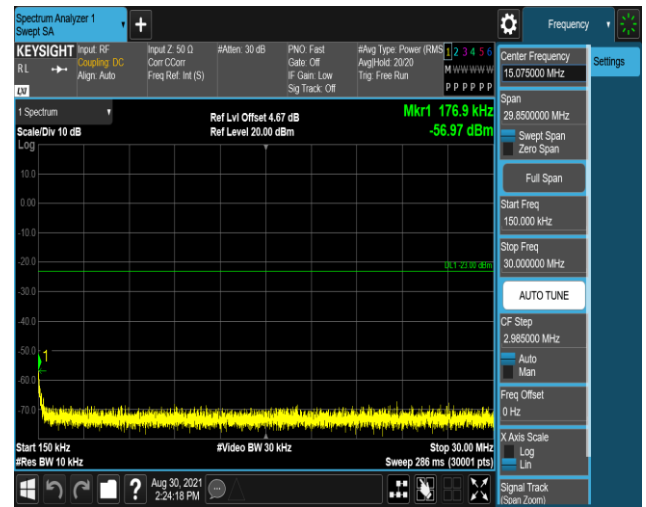
Band4-1312-1000~20000MHz



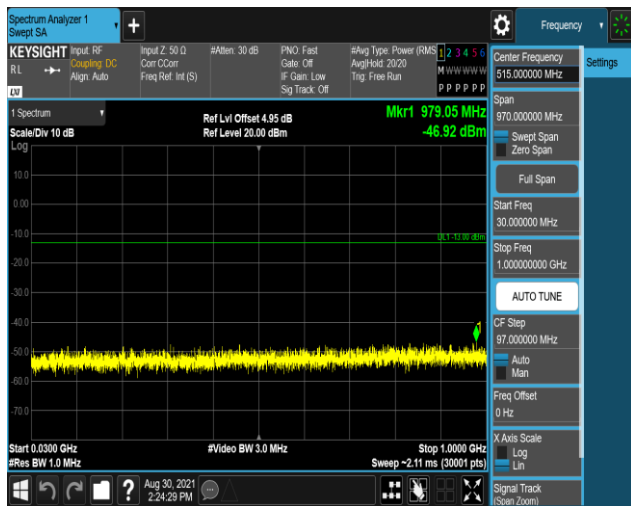
Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



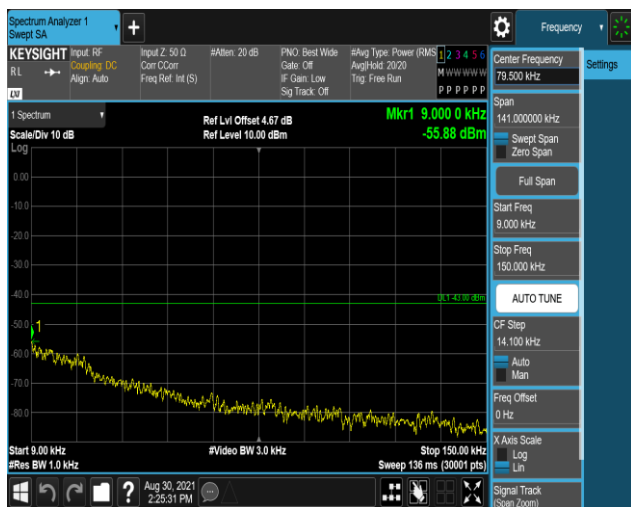
Band4-1413-30~1000MHz



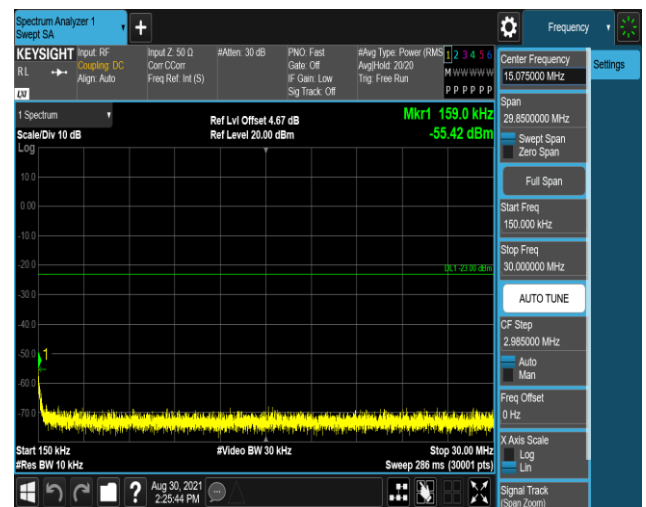
Band4-1413-1000~20000MHz



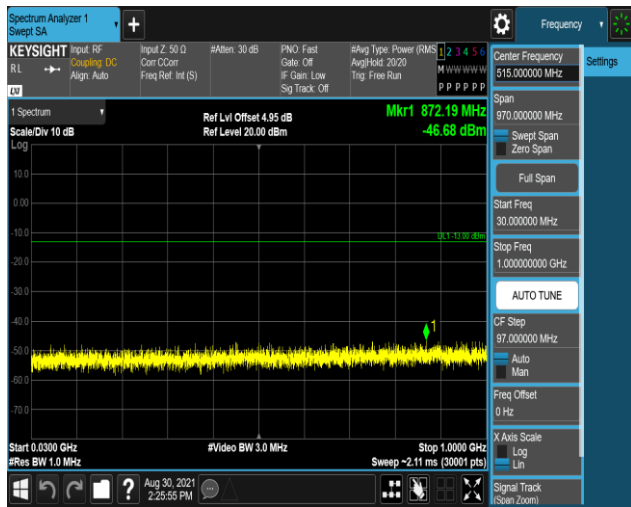
Band4-1513-0.009~0.15MHz



Band4-1513-0.15~30MHz



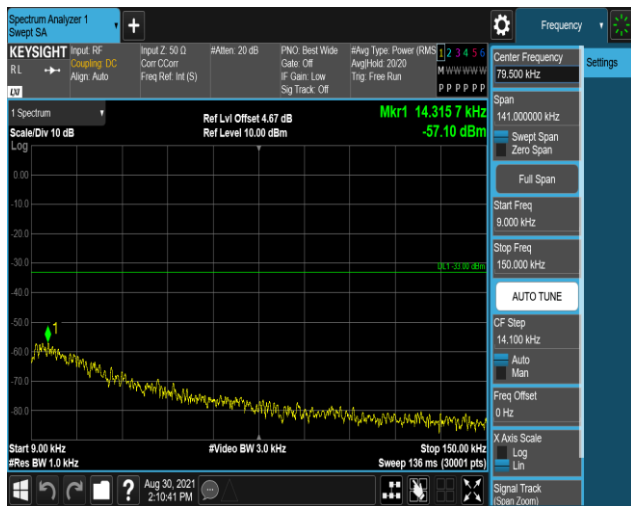
Band4-1513-30~1000MHz



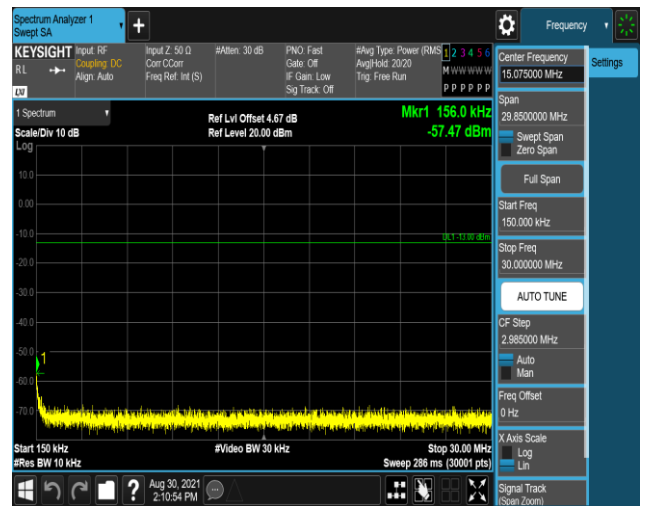
Band4-1513-1000~20000MHz



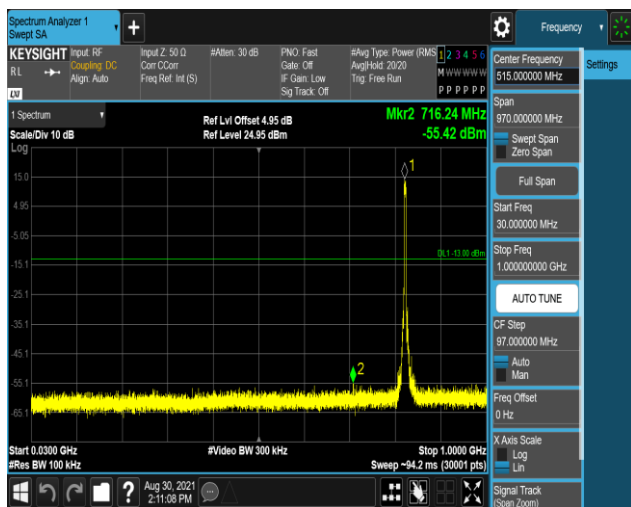
Band5-4132-0.009~0.15MHz



Band5-4132-0.15~30MHz



Band5-4132-30~1000MHz

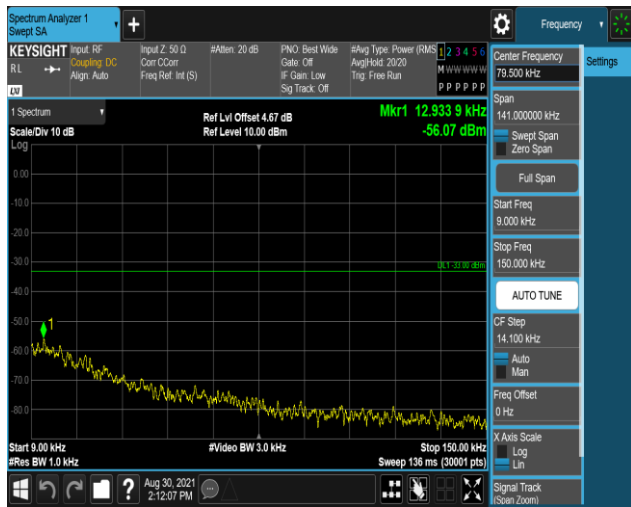


Band5-4132-1000~10000MHz

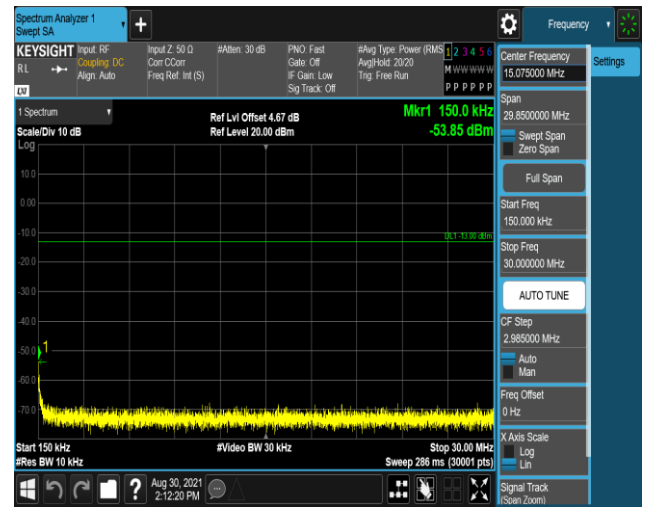




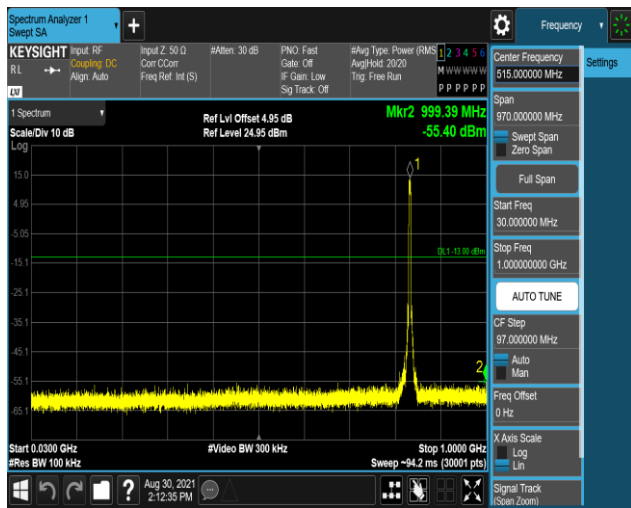
Band5-4183-0.009~0.15MHz



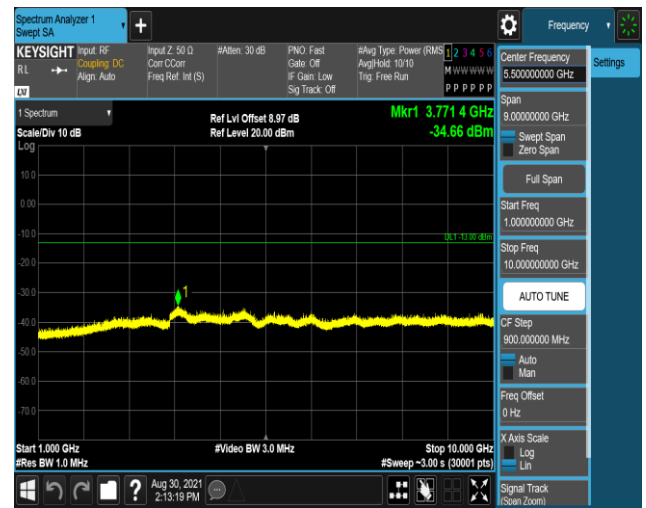
Band5-4183-0.15~30MHz



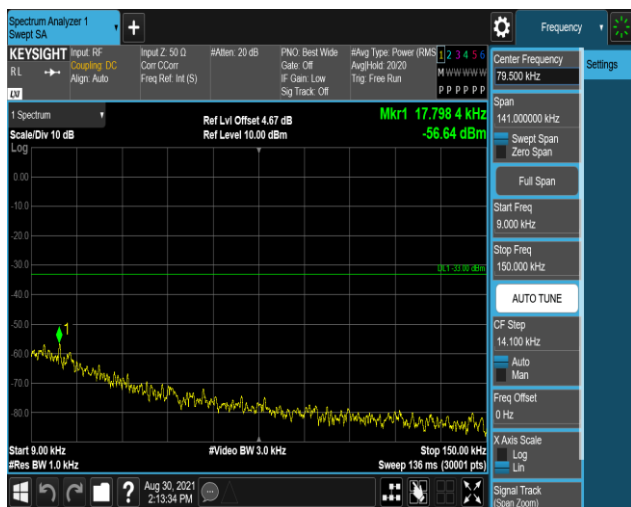
Band5-4183-30~1000MHz



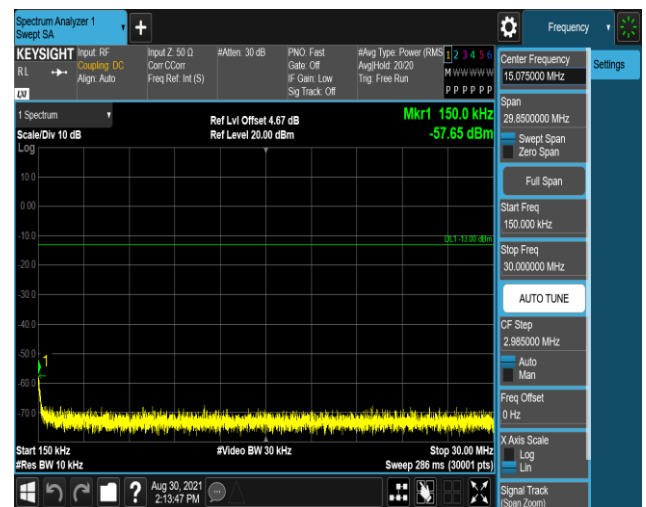
Band5-4183-1000~10000MHz



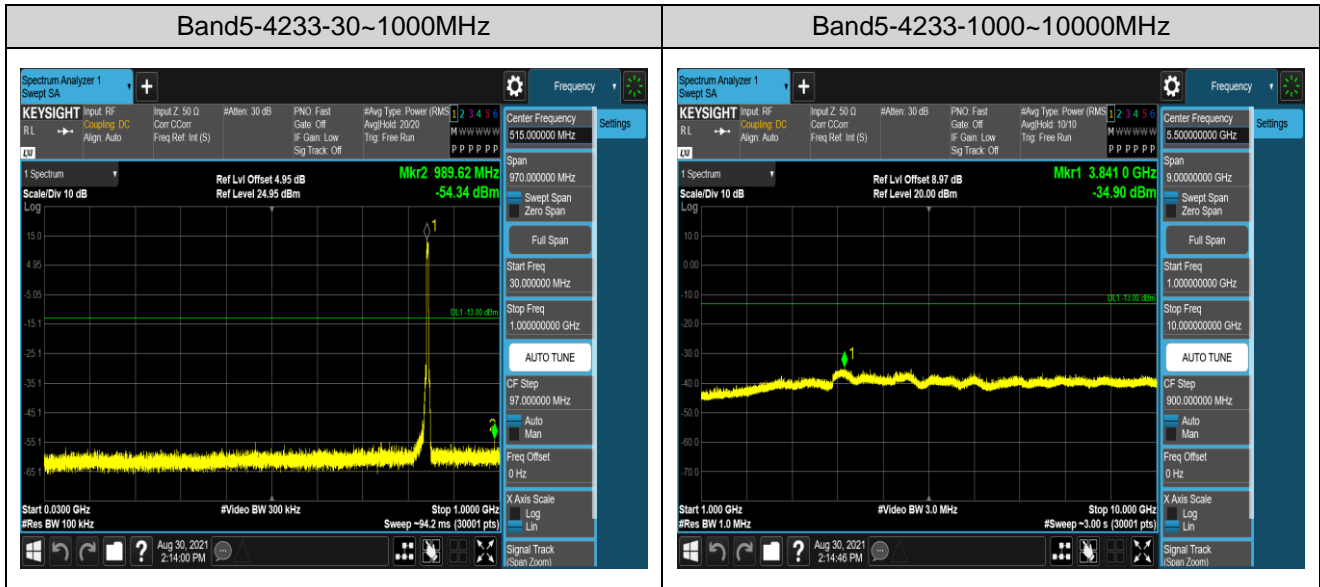
Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz







## AppendixF:Frequency Stability

### Test Result

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	-12.17	-0.006473	Within authorized band for BAND II	Pass
	-20	-9.93	-0.005282		
	-10	-12.30	-0.006543		
	0	-8.43	-0.004484		
	10	-10.59	-0.005633		
	20	-12.45	-0.006622		
	30	-9.40	-0.005000		
	40	-10.58	-0.005628		
	50	-11.63	-0.006186		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	-13.58	-0.007223	Within authorized band for BAND II	Pass
	3.85	-11.27	-0.005995		
	4.40	-10.10	-0.005372		
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	-12.65	-0.007301	Within authorized band for BAND IV	Pass
	-20	-11.17	-0.006447		
	-10	-10.69	-0.006170		
	0	-10.58	-0.006106		
	10	-11.23	-0.006482		
	20	-9.28	-0.005356		
	30	-8.52	-0.004917		
	40	-8.65	-0.004992		
	50	-11.26	-0.006499		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	-12.13	-0.007001	Within authorized band for BAND IV	Pass
	3.85	-12.74	-0.007353		
	4.40	-12.65	-0.007301		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

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	-10.85	-0.012969	±2.5	Pass
	-20	-10.51	-0.012563		
	-10	-9.21	-0.011009		
	0	-7.88	-0.009419		
	10	-8.04	-0.009610		
	20	-5.84	-0.006981		
	30	-4.39	-0.005247		
	40	-6.34	-0.007578		
	50	-8.05	-0.009622		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.23	-6.90	-0.008248	±2.5	Pass
	3.85	-6.82	-0.008152		
	4.40	-10.25	-0.012252		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

## AppendixG: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

