

## 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	22.40	23.4	33	PASS
Band2	Test Mode	9262	22.43	23.43	33	PASS
Band2	Test Mode	9400	22.55	23.55	33	PASS
Band2	Voice	9400	22.55	23.55	33	PASS
Band2	Test Mode	9538	22.70	23.7	33	PASS
Band2	Voice	9538	22.67	23.67	33	PASS
Band4	Voice	1312	22.72	23.72	30	PASS
Band4	Test Mode	1312	22.77	23.77	30	PASS
Band4	Voice	1413	22.91	23.91	30	PASS
Band4	Test Mode	1413	22.98	23.98	30	PASS
Band4	Test Mode	1513	22.95	23.95	30	PASS
Band4	Voice	1513	22.88	23.88	30	PASS
Band5	Voice	4132	22.45	21.3	38.5	PASS
Band5	Test Mode	4132	22.45	21.3	38.5	PASS
Band5	Test Mode	4183	22.65	21.5	38.5	PASS
Band5	Voice	4183	22.54	21.39	38.5	PASS
Band5	Voice	4233	22.59	21.44	38.5	PASS
Band5	Test Mode	4233	22.60	21.45	38.5	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.45	22.45	33	PASS
Band2	9262	2	20.84	21.84	33	PASS
Band2	9262	3	20.84	21.84	33	PASS
Band2	9262	4	20.83	21.83	33	PASS
Band2	9400	1	21.61	22.61	33	PASS
Band2	9400	2	21.03	22.03	33	PASS
Band2	9400	3	21.04	22.04	33	PASS
Band2	9400	4	20.99	21.99	33	PASS
Band2	9538	1	21.67	22.67	33	PASS
Band2	9538	2	21.07	22.07	33	PASS
Band2	9538	3	21.09	22.09	33	PASS
Band2	9538	4	21.12	22.12	33	PASS

Band4	1312	1	21.73	22.73	30	PASS
Band4	1312	2	21.22	22.22	30	PASS
Band4	1312	3	21.30	22.30	30	PASS
Band4	1312	4	21.25	22.25	30	PASS
Band4	1413	1	21.94	22.94	30	PASS
Band4	1413	2	21.42	22.42	30	PASS
Band4	1413	3	21.43	22.43	30	PASS
Band4	1413	4	21.44	22.44	30	PASS
Band4	1513	1	21.95	22.95	30	PASS
Band4	1513	2	21.43	22.43	30	PASS
Band4	1513	3	21.42	22.42	30	PASS
Band4	1513	4	21.40	22.40	30	PASS
Band5	4132	1	21.56	20.41	38.5	PASS
Band5	4132	2	21.03	19.88	38.5	PASS
Band5	4132	3	21.02	19.87	38.5	PASS
Band5	4132	4	20.98	19.83	38.5	PASS
Band5	4183	1	21.70	20.55	38.5	PASS
Band5	4183	2	21.15	20	38.5	PASS
Band5	4183	3	21.18	20.03	38.5	PASS
Band5	4183	4	21.15	20	38.5	PASS
Band5	4233	1	21.69	20.54	38.5	PASS
Band5	4233	2	21.17	20.02	38.5	PASS
Band5	4233	3	21.19	20.04	38.5	PASS
Band5	4233	4	21.12	19.97	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.36	20.36	33	PASS
Band2	9262	2	19.83	20.83	33	PASS
Band2	9262	3	20.34	21.34	33	PASS
Band2	9262	4	19.40	20.40	33	PASS
Band2	9262	5	21.35	22.35	33	PASS
Band2	9400	1	19.53	20.53	33	PASS
Band2	9400	2	19.98	20.98	33	PASS
Band2	9400	3	20.50	21.50	33	PASS
Band2	9400	4	19.58	20.58	33	PASS
Band2	9400	5	21.49	22.49	33	PASS
Band2	9538	1	19.60	20.60	33	PASS
Band2	9538	2	20.07	21.07	33	PASS
Band2	9538	3	20.56	21.56	33	PASS

Band2	9538	4	19.62	20.62	33	PASS
Band2	9538	5	21.57	22.57	33	PASS
Band4	1312	1	19.80	20.80	30	PASS
Band4	1312	2	20.26	21.26	30	PASS
Band4	1312	3	20.76	21.76	30	PASS
Band4	1312	4	19.79	20.79	30	PASS
Band4	1312	5	21.80	22.80	30	PASS
Band4	1413	1	19.98	20.98	30	PASS
Band4	1413	2	20.45	21.45	30	PASS
Band4	1413	3	20.93	21.93	30	PASS
Band4	1413	4	20.02	21.02	30	PASS
Band4	1413	5	21.94	22.94	30	PASS
Band4	1513	1	19.96	20.96	30	PASS
Band4	1513	2	20.46	21.46	30	PASS
Band4	1513	3	20.91	21.91	30	PASS
Band4	1513	4	20.01	21.01	30	PASS
Band4	1513	5	21.96	22.96	30	PASS
Band5	4132	1	19.59	18.44	38.5	PASS
Band5	4132	2	20.10	18.95	38.5	PASS
Band5	4132	3	20.56	19.41	38.5	PASS
Band5	4132	4	19.60	18.45	38.5	PASS
Band5	4132	5	21.57	20.42	38.5	PASS
Band5	4183	1	19.74	18.59	38.5	PASS
Band5	4183	2	20.22	19.07	38.5	PASS
Band5	4183	3	20.70	19.55	38.5	PASS
Band5	4183	4	19.77	18.62	38.5	PASS
Band5	4183	5	21.73	20.58	38.5	PASS
Band5	4233	1	19.74	18.59	38.5	PASS
Band5	4233	2	20.15	19	38.5	PASS
Band5	4233	3	20.68	19.53	38.5	PASS
Band5	4233	4	19.76	18.61	38.5	PASS
Band5	4233	5	21.71	20.56	38.5	PASS

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

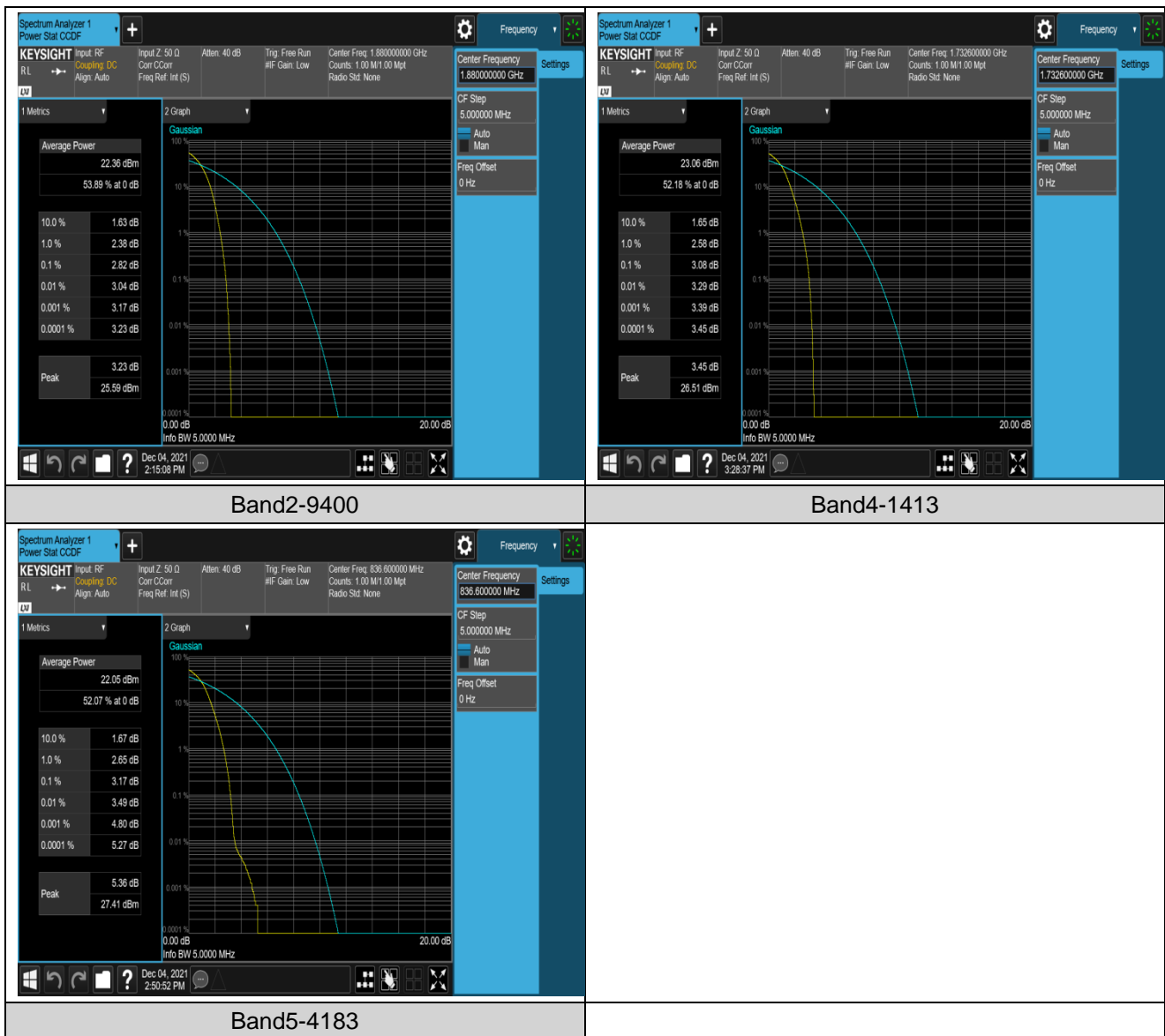
## Appendix B: Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.82	13	PASS
Band4	1413	3.08	13	PASS
Band5	4183	3.17	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	4.1578	4.707	---	PASS
Band2	9400	4.1693	4.712	---	PASS
Band2	9538	4.1536	4.696	---	PASS
Band4	1312	4.1734	4.712	---	PASS
Band4	1413	4.1756	4.707	---	PASS
Band4	1513	4.1767	4.715	---	PASS
Band5	4132	4.1710	4.692	---	PASS
Band5	4183	4.1764	4.694	---	PASS
Band5	4233	4.1732	4.702	---	PASS

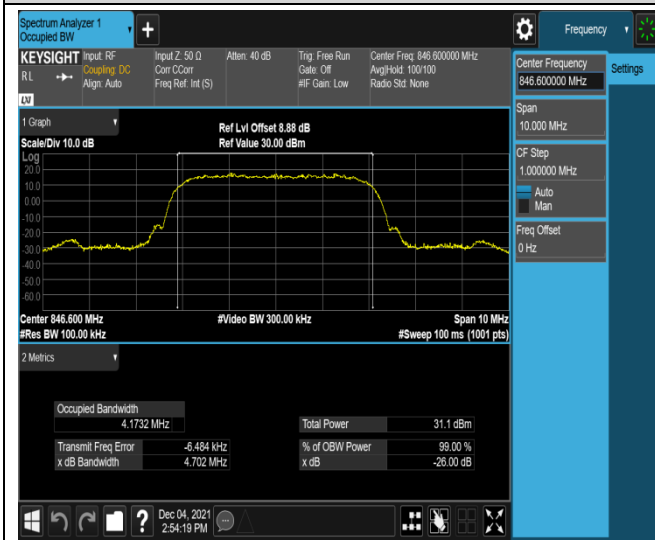
Test Graphs(WCDMA)





Band5-4132-4.692

Band5-4183-4.694



Band5-4233-4.702

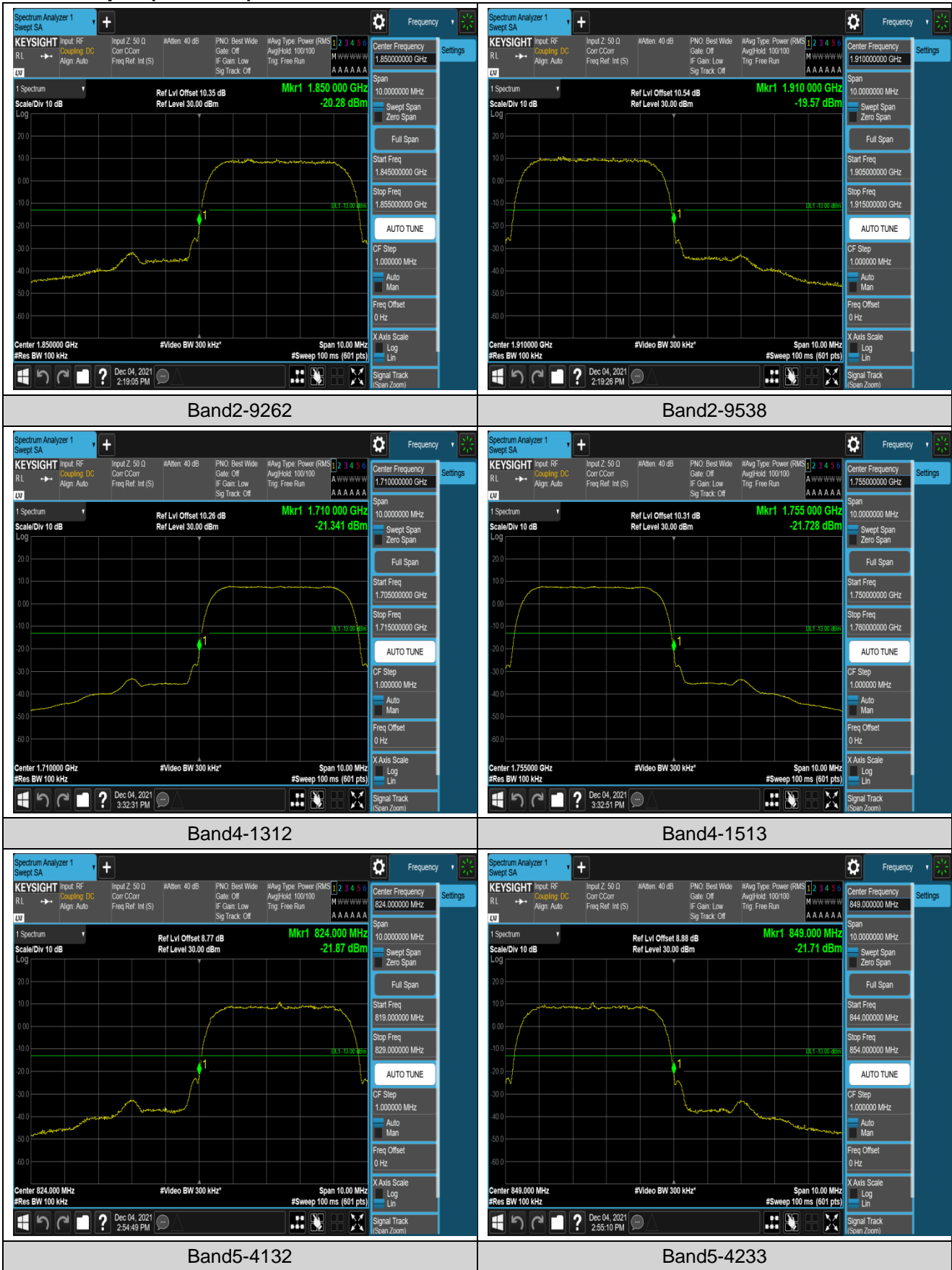
## Appendix D: Band Edge

### Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.28	-13	PASS
Band2	9538	1910.00	-19.57	-13	PASS
Band4	1312	1710.00	-21.34	-13	PASS
Band4	1513	1755.00	-21.73	-13	PASS
Band5	4132	824.00	-21.87	-13	PASS
Band5	4233	849.00	-21.71	-13	PASS



### Test Graphs(WCDMA)

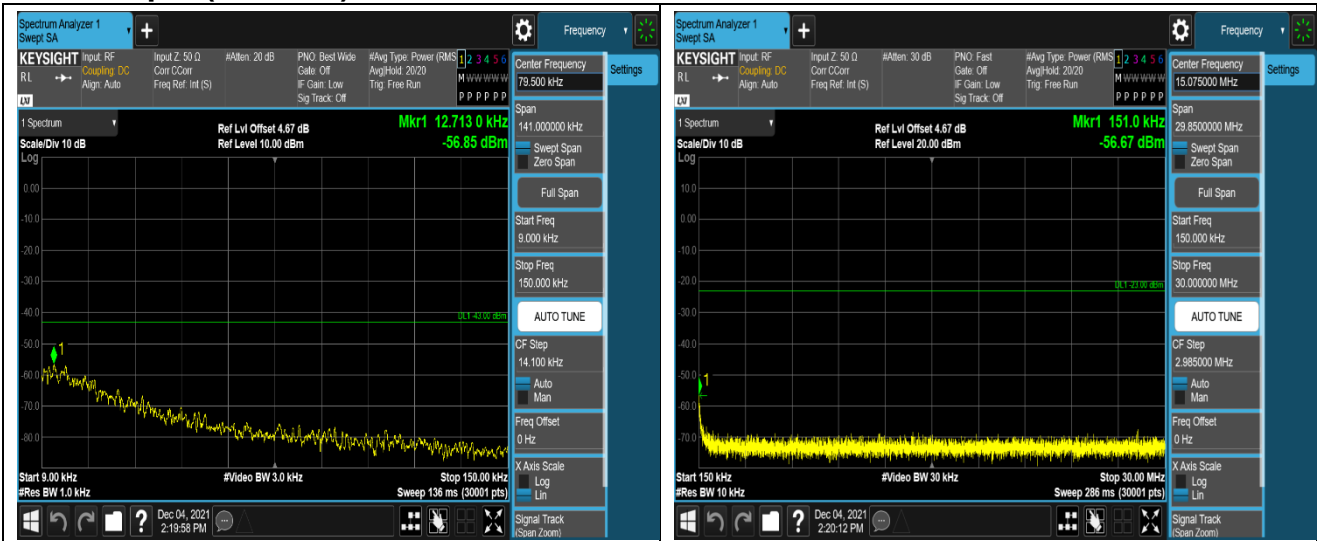


## Appendix E: Conducted Spurious Emission

### Test Result(WCDMA)

Band	Channel	Frequency Range (MHz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.85	-43	PASS
Band2	9262	0.15~30MHz	0.15	-56.67	-23	PASS
Band2	9262	30~1000MHz	807.88	-46.56	-13	PASS
Band2	9262	1000~20000MHz	18987.3	-35.11	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-57.34	-43	PASS
Band2	9400	0.15~30MHz	0.15	-57.22	-23	PASS
Band2	9400	30~1000MHz	794.49	-46.78	-13	PASS
Band2	9400	1000~20000MHz	19848.63	-34.04	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.98	-43	PASS
Band2	9538	0.15~30MHz	0.16	-57.67	-23	PASS
Band2	9538	30~1000MHz	881.37	-46.82	-13	PASS
Band2	9538	1000~20000MHz	3786.03	-34.55	-13	PASS
Band4	1312	0.009~0.15MHz	0.02	-56.91	-43	PASS
Band4	1312	0.15~30MHz	0.17	-57.93	-23	PASS
Band4	1312	30~1000MHz	969.51	-47.25	-13	PASS
Band4	1312	1000~20000MHz	3786.03	-35.02	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.01	-43	PASS
Band4	1413	0.15~30MHz	0.15	-57.21	-23	PASS
Band4	1413	30~1000MHz	941.57	-45.81	-13	PASS
Band4	1413	1000~20000MHz	3736	-34.72	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.03	-43	PASS
Band4	1513	0.15~30MHz	0.15	-57.49	-23	PASS
Band4	1513	30~1000MHz	871.28	-46.34	-13	PASS
Band4	1513	1000~20000MHz	3794.27	-34.94	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-56.34	-33	PASS
Band5	4132	0.15~30MHz	0.16	-56.4	-13	PASS
Band5	4132	30~1000MHz	993.47	-54.8	-13	PASS
Band5	4132	1000~10000MHz	3773.2	-35.06	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.31	-33	PASS
Band5	4183	0.15~30MHz	0.17	-55.69	-13	PASS
Band5	4183	30~1000MHz	992.01	-55.91	-13	PASS
Band5	4183	1000~10000MHz	3796	-34.96	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.81	-33	PASS
Band5	4233	0.15~30MHz	0.15	-56.27	-13	PASS
Band5	4233	30~1000MHz	961.04	-55.39	-13	PASS
Band5	4233	1000~10000MHz	3741.4	-34.53	-13	PASS

Test Graphs(WCDMA)



Band2-9262-0.009~0.15MHz

Band2-9262-0.15~30MHz



Band2-9262-30~1000MHz

Band2-9262-1000~20000MHz



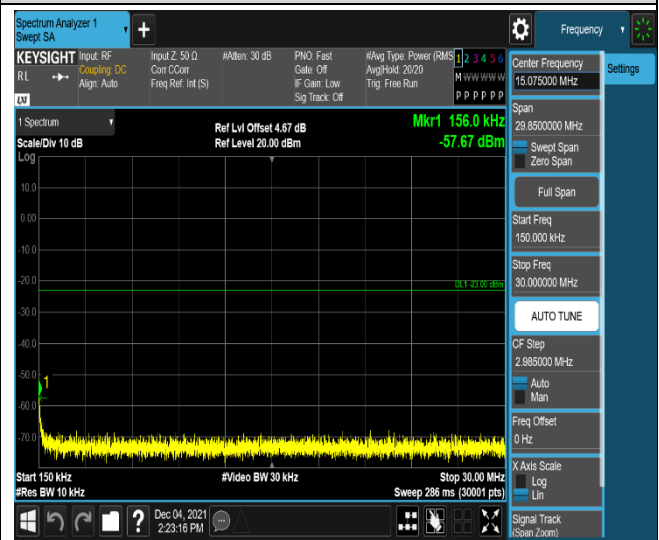
Band2-9400-0.009~0.15MHz

Band2-9400-0.15~30MHz



Band2-9400-30~1000MHz

Band2-9400-1000~20000MHz



Band2-9538-0.009~0.15MHz

Band2-9538-0.15~30MHz



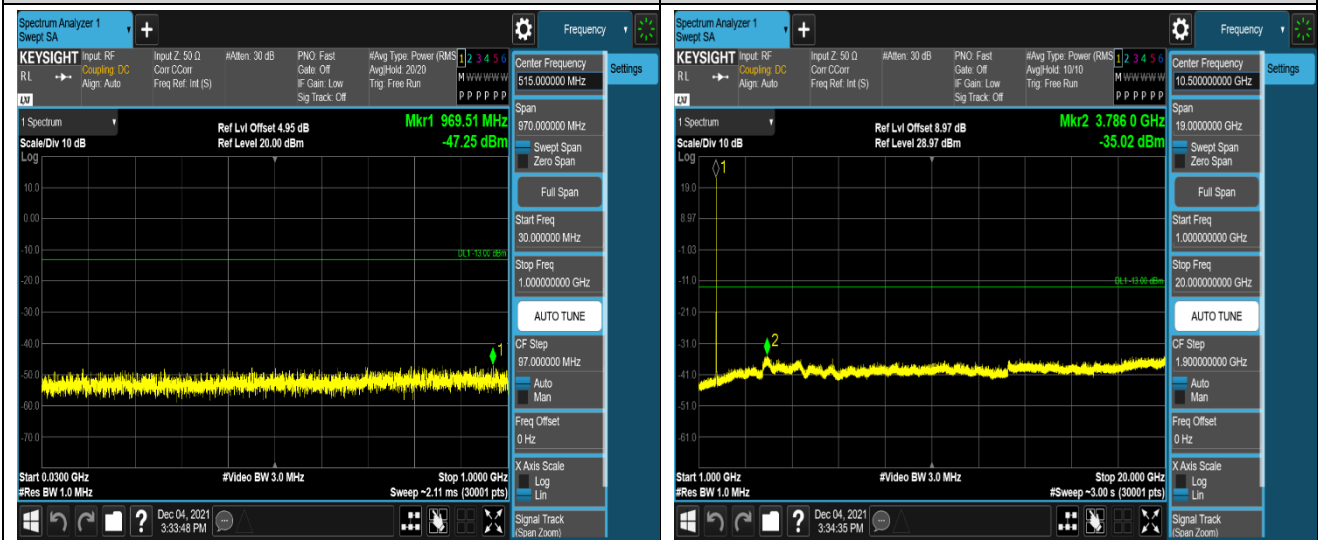
Band2-9538-30~1000MHz

Band2-9538-1000~20000MHz



Band4-1312-0.009~0.15MHz

Band4-1312-0.15~30MHz



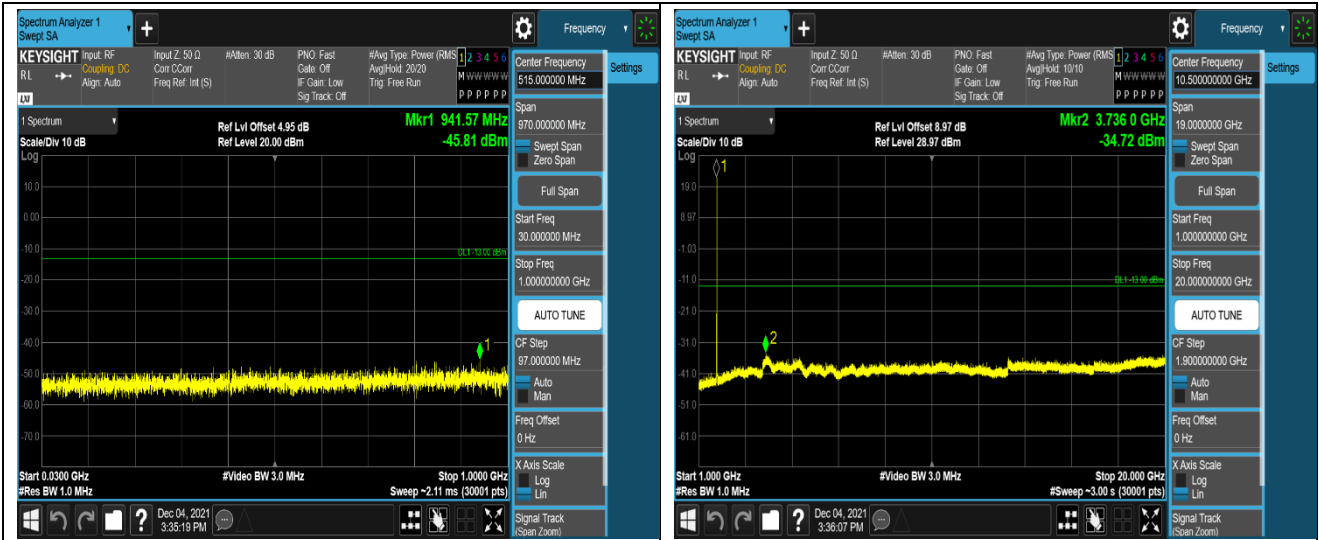
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



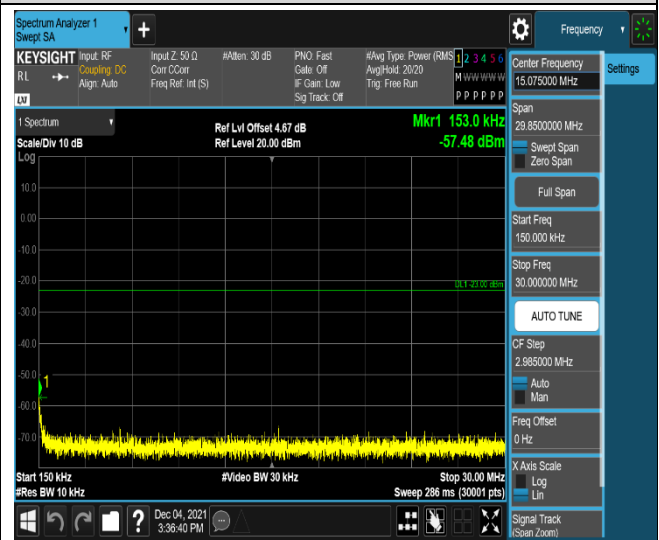
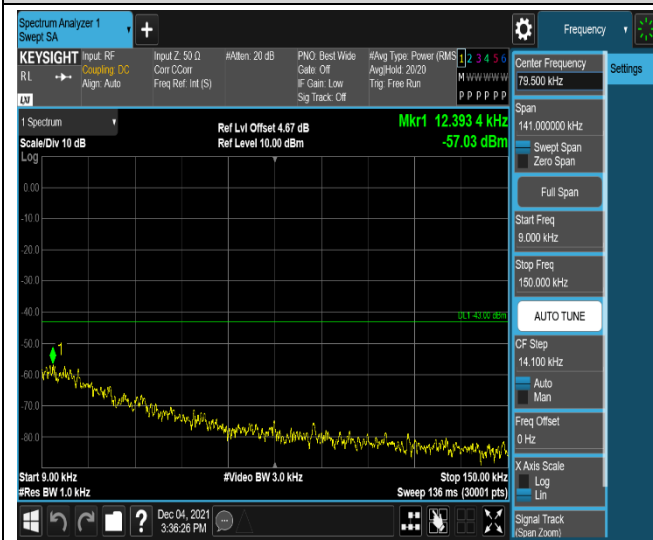
Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



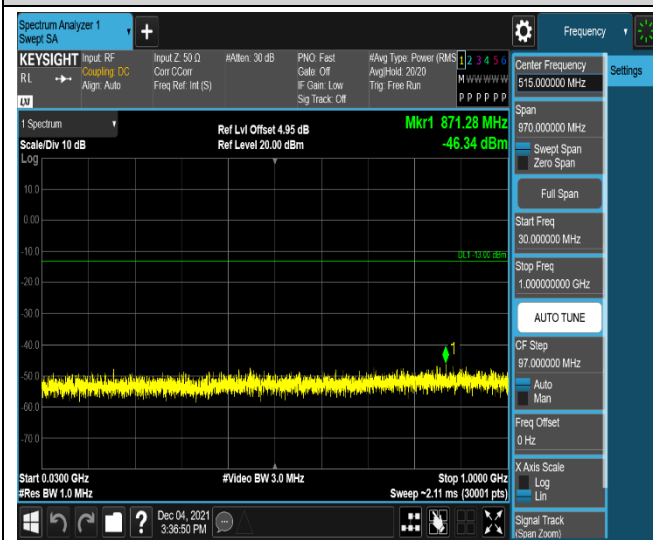
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz



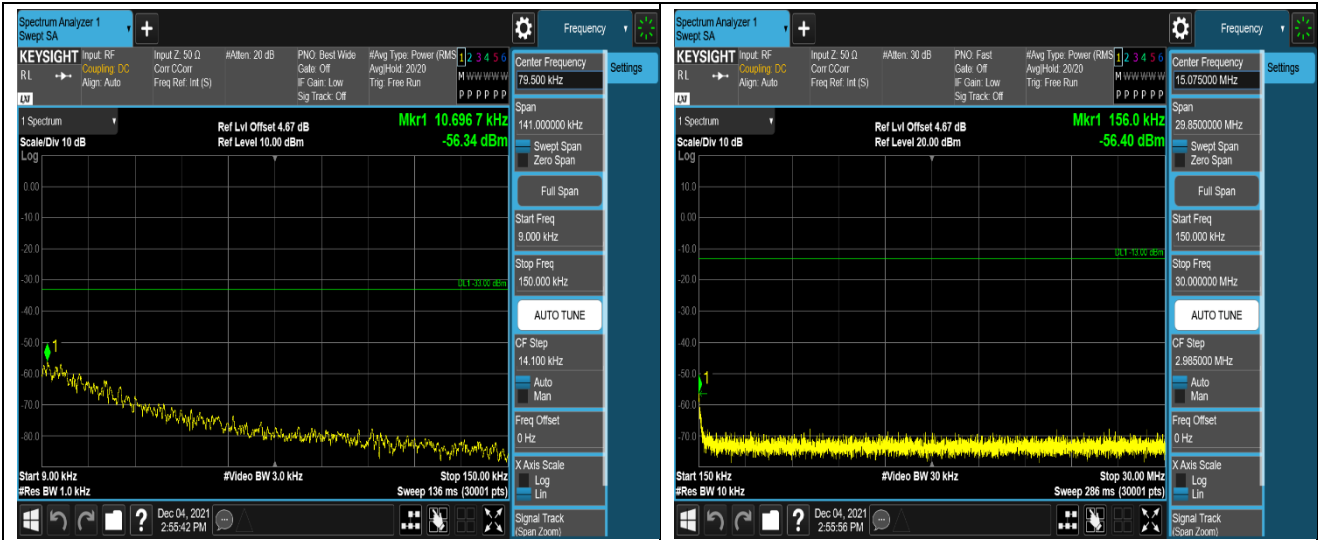
Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz

Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

Band5-4132-0.15~30MHz



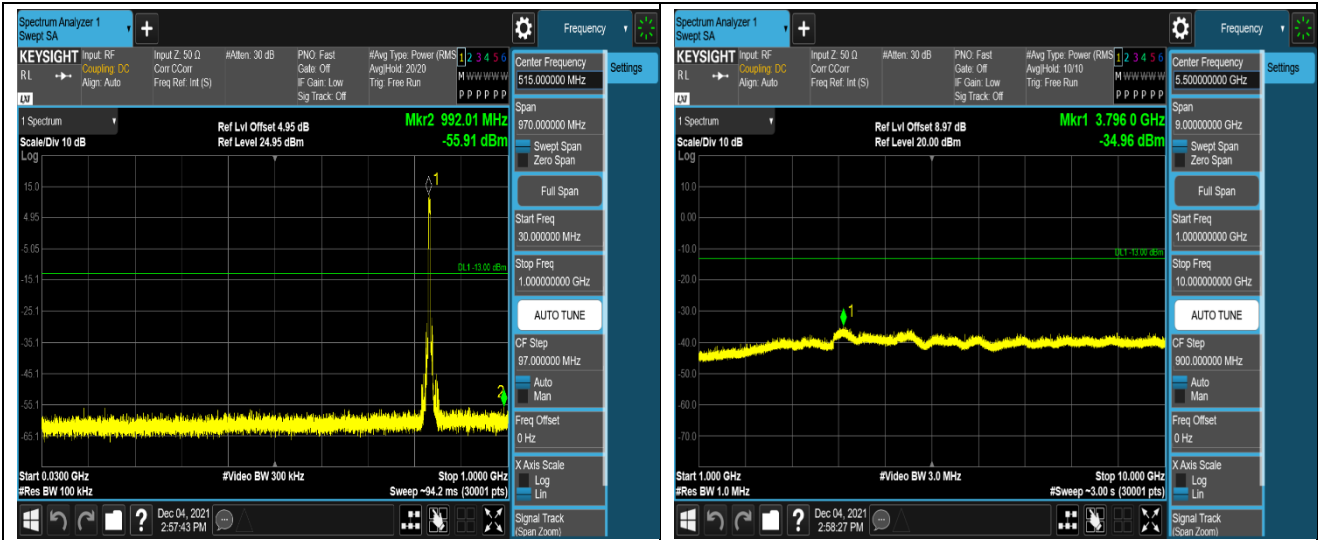
Band5-4132-30~1000MHz

Band5-4132-1000~10000MHz



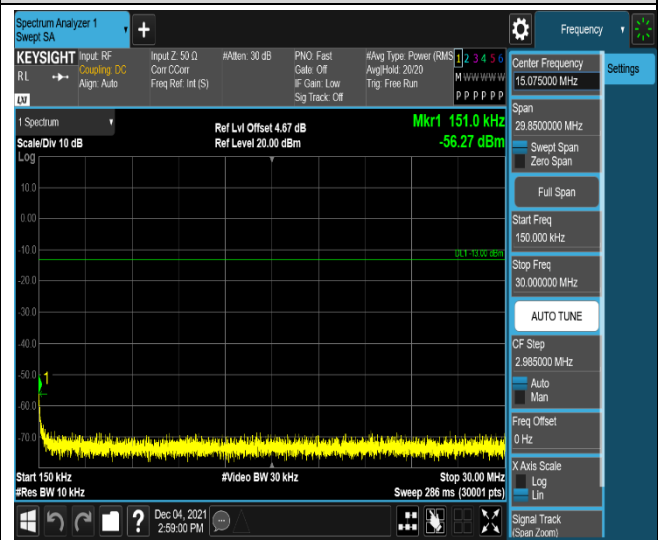
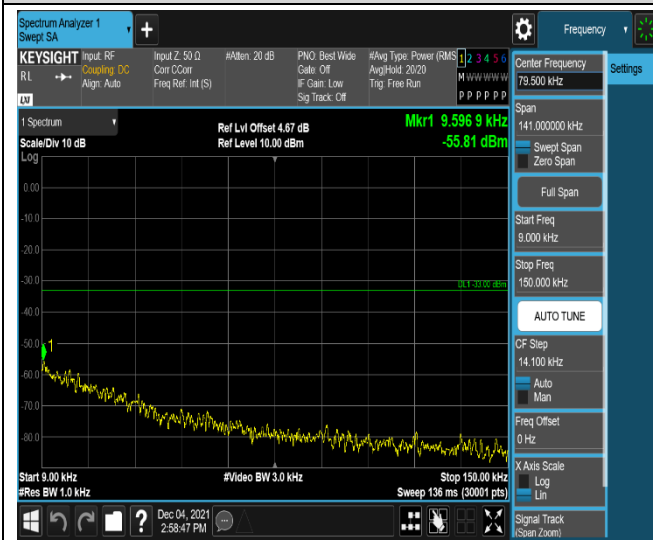
Band5-4183-0.009~0.15MHz

Band5-4183-0.15~30MHz



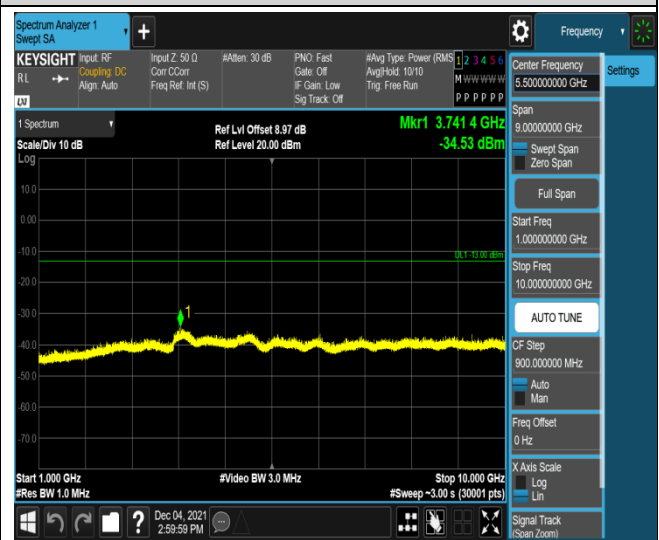
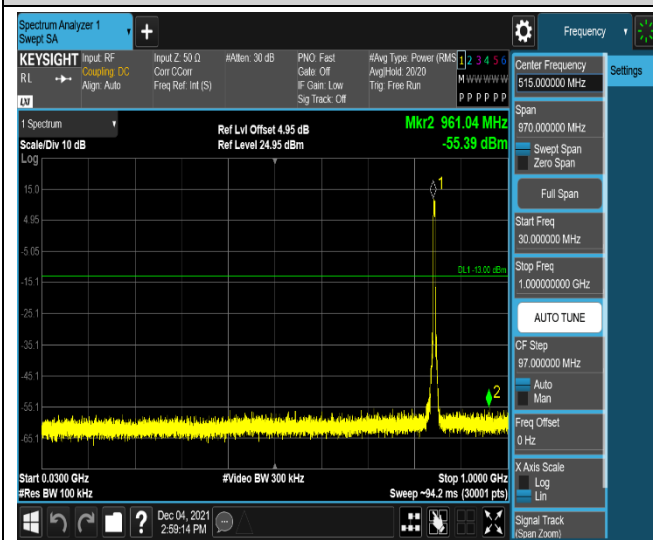
Band5-4183-30~1000MHz

Band5-4183-1000~10000MHz



Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz



## Appendix F: 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		
3.70	-30	-7.87	-0.004186	Within authorized band for BAND II	Pass
	-20	-11.05	-0.005878		
	-10	-4.41	-0.002346		
	0	-10.15	-0.005399		
	10	-10.32	-0.005489		
	20	-12.77	-0.006793		
	30	-16.37	-0.008707		
	40	-10.62	-0.005649		
	50	-12.97	-0.006899		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-9.20	-0.004894	Within authorized band for BAND II	Pass
	3.70	-13.43	-0.007144		
	4.20	-9.56	-0.005085		
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 channel=1413 Frequency=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-12.97	-0.006899	±2.5	Pass
	-20	-12.13	-0.007001		
	-10	-12.77	-0.007370		
	0	-13.53	-0.007809		
	10	-15.26	-0.008808		
	20	-10.91	-0.006297		
	30	-13.20	-0.007619		
	40	-15.56	-0.008981		
	50	-9.78	-0.005645		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.95	-0.015479	±2.5	Pass
	3.70	-6.98	-0.008343		
	4.20	-7.11	-0.008499		
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		
3.70	-30	-4.01	-0.004793	±2.5	Pass
	-20	-12.20	-0.014583		
	-10	-7.36	-0.008798		
	0	-11.82	-0.014129		
	10	-10.50	-0.012551		
	20	-6.58	-0.007865		
	30	-12.07	-0.014427		
	40	-7.45	-0.008905		
	50	-10.28	-0.012288		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-16.77	-0.009679	±2.5	Pass
	3.70	-15.38	-0.008877		
	4.20	-15.28	-0.008819		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

## 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

The figure displays four screenshots of the WCDMA UE TX Measurement software interface, showing test results for different frequency bands. Each screenshot includes a table of statistics for various parameters.

Parameter	Current	Average	Maximum	StdDev.
Power [dBm]	NCAP	NCAP	NCAP	NCAP
Power Steps [dB]	NCAP	NCAP	NCAP	NCAP
EVM RMS [%]	NCAP	NCAP	NCAP	NCAP
EVM Peak [%]	NCAP	NCAP	NCAP	NCAP
Magnitude Error RMS [%]	NCAP	NCAP	NCAP	NCAP
Magnitude Error Peak [%]	NCAP	NCAP	NCAP	NCAP
Phase Error RMS [°]	NCAP	NCAP	NCAP	NCAP
Phase Error Peak [°]	NCAP	NCAP	NCAP	NCAP
IQ Origin Offset [dB]	NCAP	NCAP	NCAP	NCAP
IQ Imbalance [dB]	NCAP	NCAP	NCAP	NCAP
CF Error [Hz]	NCAP	NCAP	NCAP	NCAP
Trans. Time Error [Chip]	NCAP	NCAP	NCAP	NCAP
Phase Disc. [°]	NCAP	NCAP	NCAP	NCAP
OBW [MHz]	NCAP	NCAP	NCAP	NCAP

The screenshots are labeled as follows:

- Top Left: Band2-9400
- Top Right: Band4-1413
- Bottom Left: Band5-4183
- Bottom Right: (Empty screenshot area)