

## AppendixA: 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	23.35	21.24	33.01	PASS
Band2	TestMode	9262	23.35	21.24	33.01	PASS
Band2	TestMode	9400	23.20	21.09	33.01	PASS
Band2	Voice	9400	23.11	21	33.01	PASS
Band2	TestMode	9538	23.08	20.97	33.01	PASS
Band2	Voice	9538	22.94	20.83	33.01	PASS
Band4	Voice	1312	22.82	21.08	30.00	PASS
Band4	TestMode	1312	22.85	21.11	30.00	PASS
Band4	Voice	1413	22.77	21.03	30.00	PASS
Band4	TestMode	1413	22.77	21.03	30.00	PASS
Band4	TestMode	1513	23.06	21.32	30.00	PASS
Band4	Voice	1513	23.01	21.27	30.00	PASS
Band5	Voice	4132	22.78	17	38.45	PASS
Band5	TestMode	4132	22.78	17	38.45	PASS
Band5	TestMode	4183	23.35	17.57	38.45	PASS
Band5	Voice	4183	23.41	17.63	38.45	PASS
Band5	Voice	4233	23.57	17.79	38.45	PASS
Band5	TestMode	4233	23.49	17.71	38.45	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.37	20.26	33.01	PASS
Band2	9262	2	21.82	19.71	33.01	PASS
Band2	9262	3	21.79	19.68	33.01	PASS
Band2	9262	4	21.77	19.66	33.01	PASS
Band2	9400	1	22.20	20.09	33.01	PASS
Band2	9400	2	21.61	19.5	33.01	PASS
Band2	9400	3	21.62	19.51	33.01	PASS
Band2	9400	4	21.58	19.47	33.01	PASS
Band2	9538	1	22.04	19.93	33.01	PASS
Band2	9538	2	21.43	19.32	33.01	PASS
Band2	9538	3	21.47	19.36	33.01	PASS
Band2	9538	4	21.51	19.4	33.01	PASS

Band4	1312	1	21.84	20.1	30.00	PASS
Band4	1312	2	21.26	19.52	30.00	PASS
Band4	1312	3	21.30	19.56	30.00	PASS
Band4	1312	4	21.28	19.54	30.00	PASS
Band4	1413	1	21.73	19.99	30.00	PASS
Band4	1413	2	21.18	19.44	30.00	PASS
Band4	1413	3	21.22	19.48	30.00	PASS
Band4	1413	4	21.17	19.43	30.00	PASS
Band4	1513	1	22.02	20.28	30.00	PASS
Band4	1513	2	21.48	19.74	30.00	PASS
Band4	1513	3	21.50	19.76	30.00	PASS
Band4	1513	4	21.46	19.72	30.00	PASS
Band5	4132	1	21.82	16.04	38.5	PASS
Band5	4132	2	21.29	15.51	38.5	PASS
Band5	4132	3	21.29	15.51	38.5	PASS
Band5	4132	4	21.23	15.45	38.5	PASS
Band5	4183	1	22.41	16.63	38.5	PASS
Band5	4183	2	21.87	16.09	38.5	PASS
Band5	4183	3	21.85	16.07	38.5	PASS
Band5	4183	4	21.80	16.02	38.5	PASS
Band5	4233	1	22.56	16.78	38.5	PASS
Band5	4233	2	22.01	16.23	38.5	PASS
Band5	4233	3	22.03	16.25	38.5	PASS
Band5	4233	4	21.98	16.2	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.37	19.26	33.01	PASS
Band2	9262	2	21.86	19.75	33.01	PASS
Band2	9262	3	22.38	20.27	33.01	PASS
Band2	9262	4	21.38	19.27	33.01	PASS
Band2	9262	5	23.37	21.26	33.01	PASS
Band2	9400	1	21.14	19.03	33.01	PASS
Band2	9400	2	21.64	19.53	33.01	PASS
Band2	9400	3	22.15	20.04	33.01	PASS
Band2	9400	4	21.23	19.12	33.01	PASS
Band2	9400	5	23.19	21.08	33.01	PASS
Band2	9538	1	21.00	18.89	33.01	PASS
Band2	9538	2	21.49	19.38	33.01	PASS
Band2	9538	3	22.00	19.89	33.01	PASS

Band2	9538	4	20.99	18.88	33.01	PASS
Band2	9538	5	23.00	20.89	33.01	PASS
Band4	1312	1	20.84	19.1	30.00	PASS
Band4	1312	2	21.36	19.62	30.00	PASS
Band4	1312	3	21.83	20.09	30.00	PASS
Band4	1312	4	20.82	19.08	30.00	PASS
Band4	1312	5	22.89	21.15	30.00	PASS
Band4	1413	1	20.77	19.03	30.00	PASS
Band4	1413	2	21.24	19.5	30.00	PASS
Band4	1413	3	21.74	20	30.00	PASS
Band4	1413	4	20.74	19	30.00	PASS
Band4	1413	5	22.77	21.03	30.00	PASS
Band4	1513	1	21.03	19.29	30.00	PASS
Band4	1513	2	21.52	19.78	30.00	PASS
Band4	1513	3	22.02	20.28	30.00	PASS
Band4	1513	4	21.04	19.3	30.00	PASS
Band4	1513	5	23.07	21.33	30.00	PASS
Band5	4132	1	20.82	15.04	38.5	PASS
Band5	4132	2	21.32	15.54	38.5	PASS
Band5	4132	3	21.82	16.04	38.5	PASS
Band5	4132	4	20.83	15.05	38.5	PASS
Band5	4132	5	22.85	17.07	38.5	PASS
Band5	4183	1	21.40	15.62	38.5	PASS
Band5	4183	2	21.88	16.1	38.5	PASS
Band5	4183	3	22.37	16.59	38.5	PASS
Band5	4183	4	21.41	15.63	38.5	PASS
Band5	4183	5	23.41	17.63	38.5	PASS
Band5	4233	1	21.56	15.78	38.5	PASS
Band5	4233	2	22.05	16.27	38.5	PASS
Band5	4233	3	22.56	16.78	38.5	PASS
Band5	4233	4	21.57	15.79	38.5	PASS
Band5	4233	5	23.57	17.79	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)

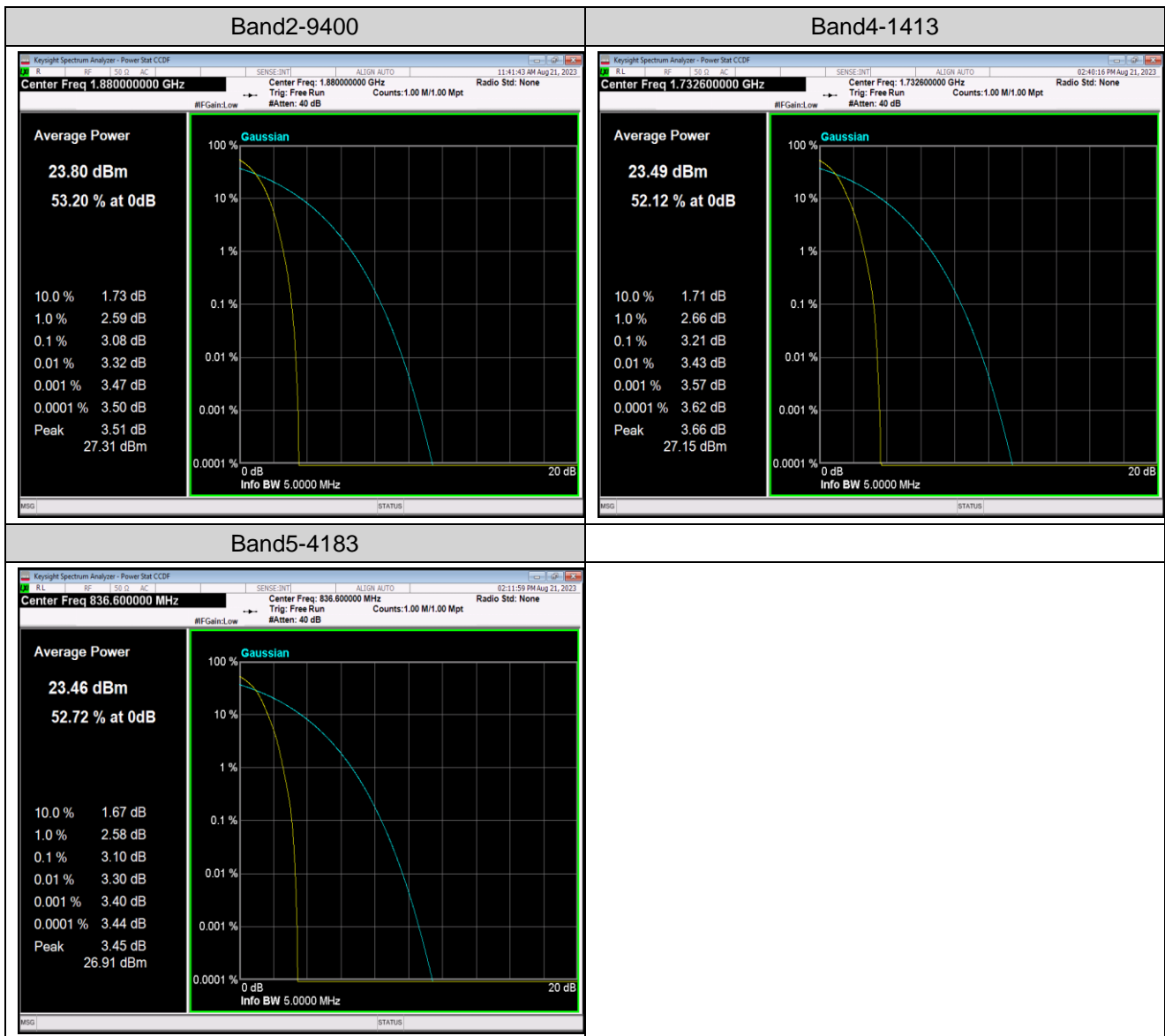
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.08	13	PASS
Band4	1413	3.21	13	PASS
Band5	4183	3.1	13	PASS

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

### Test Graphs(WCDMA)

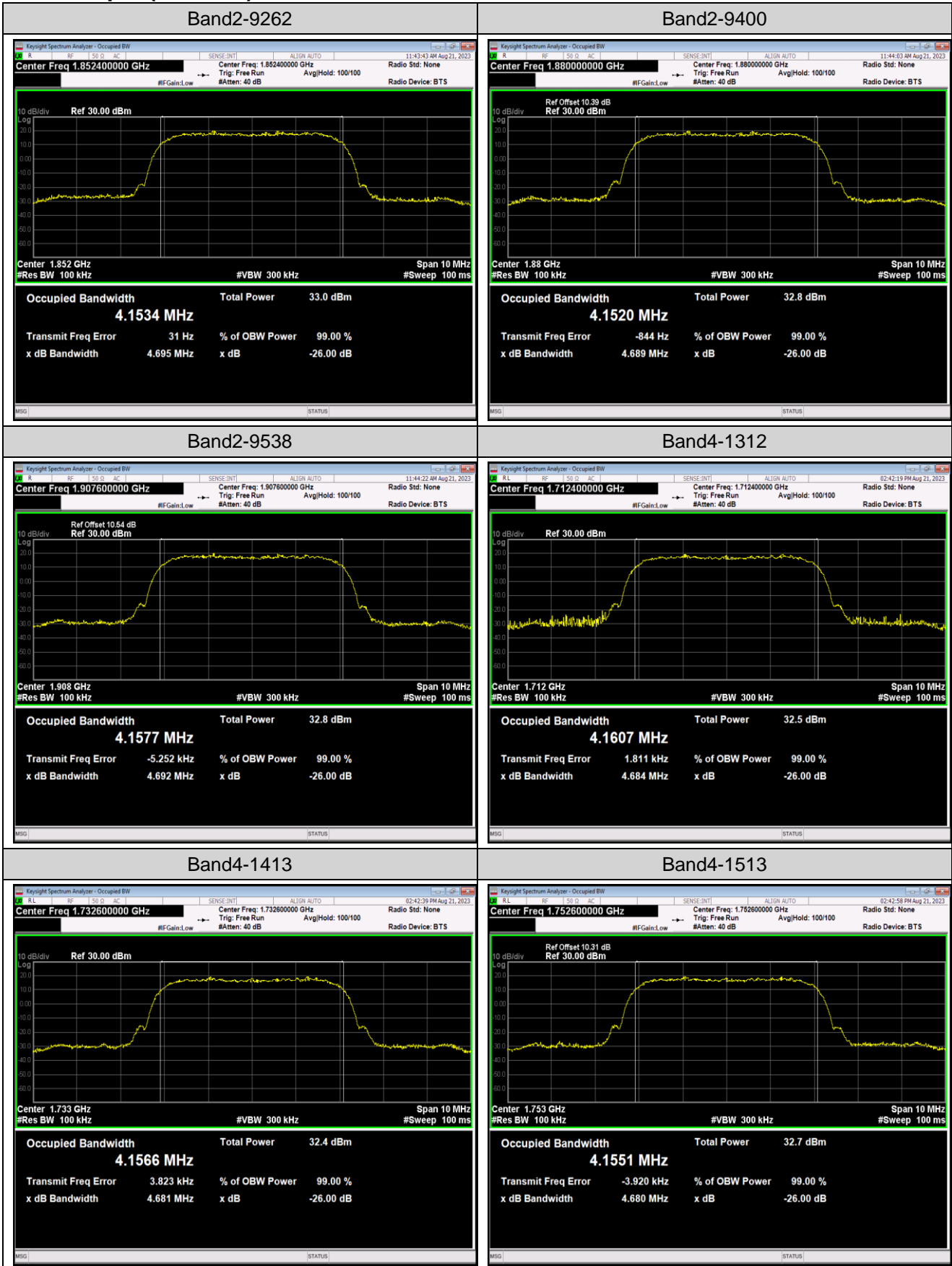


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1534	4.695	---	PASS
Band2	9400	4.1520	4.689	---	PASS
Band2	9538	4.1577	4.692	---	PASS
Band4	1312	4.1607	4.684	---	PASS
Band4	1413	4.1566	4.681	---	PASS
Band4	1513	4.1551	4.680	---	PASS
Band5	4132	4.1547	4.696	---	PASS
Band5	4183	4.1599	4.686	---	PASS
Band5	4233	4.1631	4.678	---	PASS

Test Graphs(WCDMA)





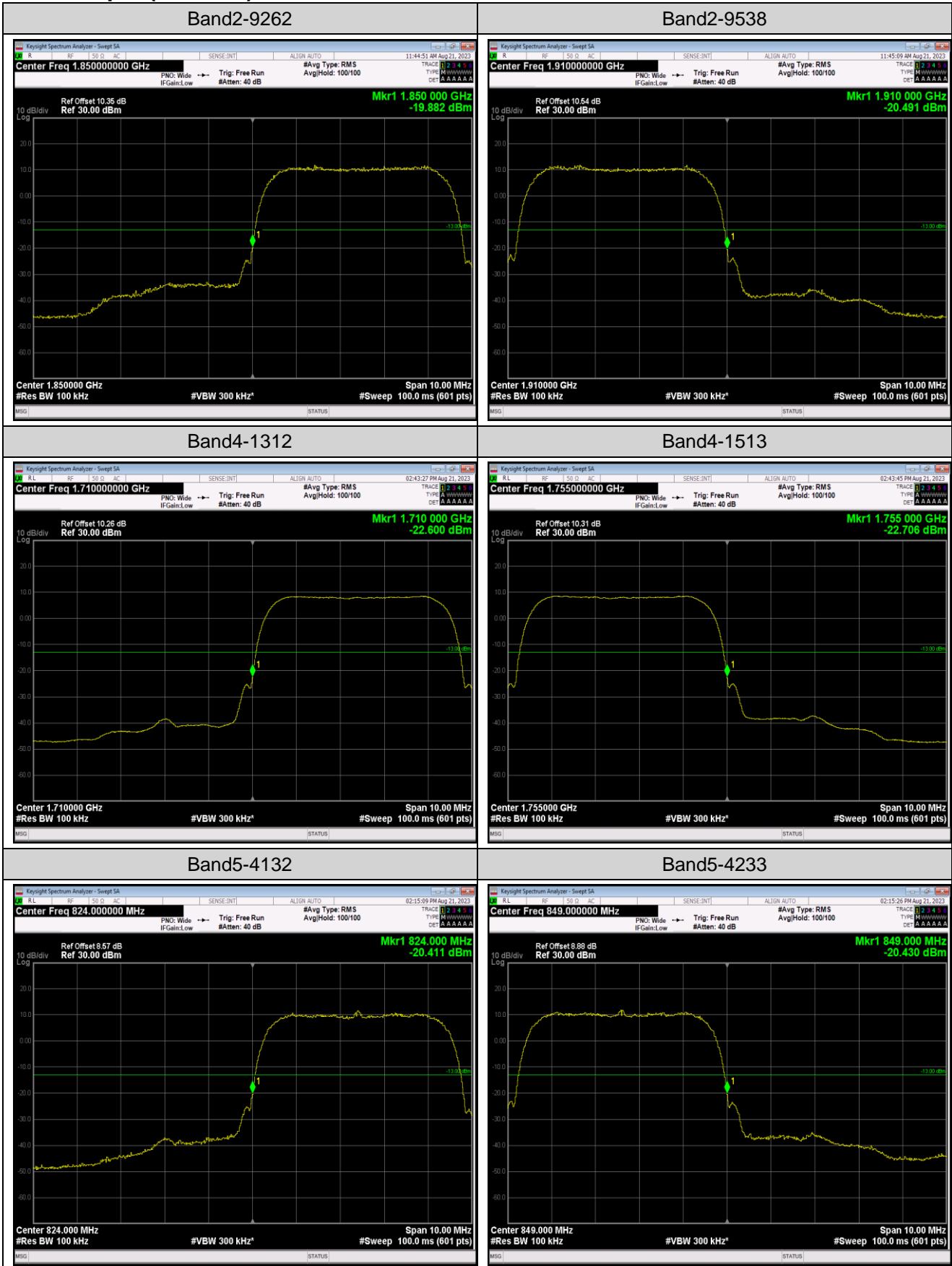
## AppendixD:Band Edge

### Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-19.88	-13	PASS
Band2	9538	1910.00	-20.49	-13	PASS
Band4	1312	1710.00	-22.60	-13	PASS
Band4	1513	1755.00	-22.71	-13	PASS
Band5	4132	824.00	-20.41	-13	PASS
Band5	4233	849.00	-20.43	-13	PASS



Test Graphs(WCDMA)

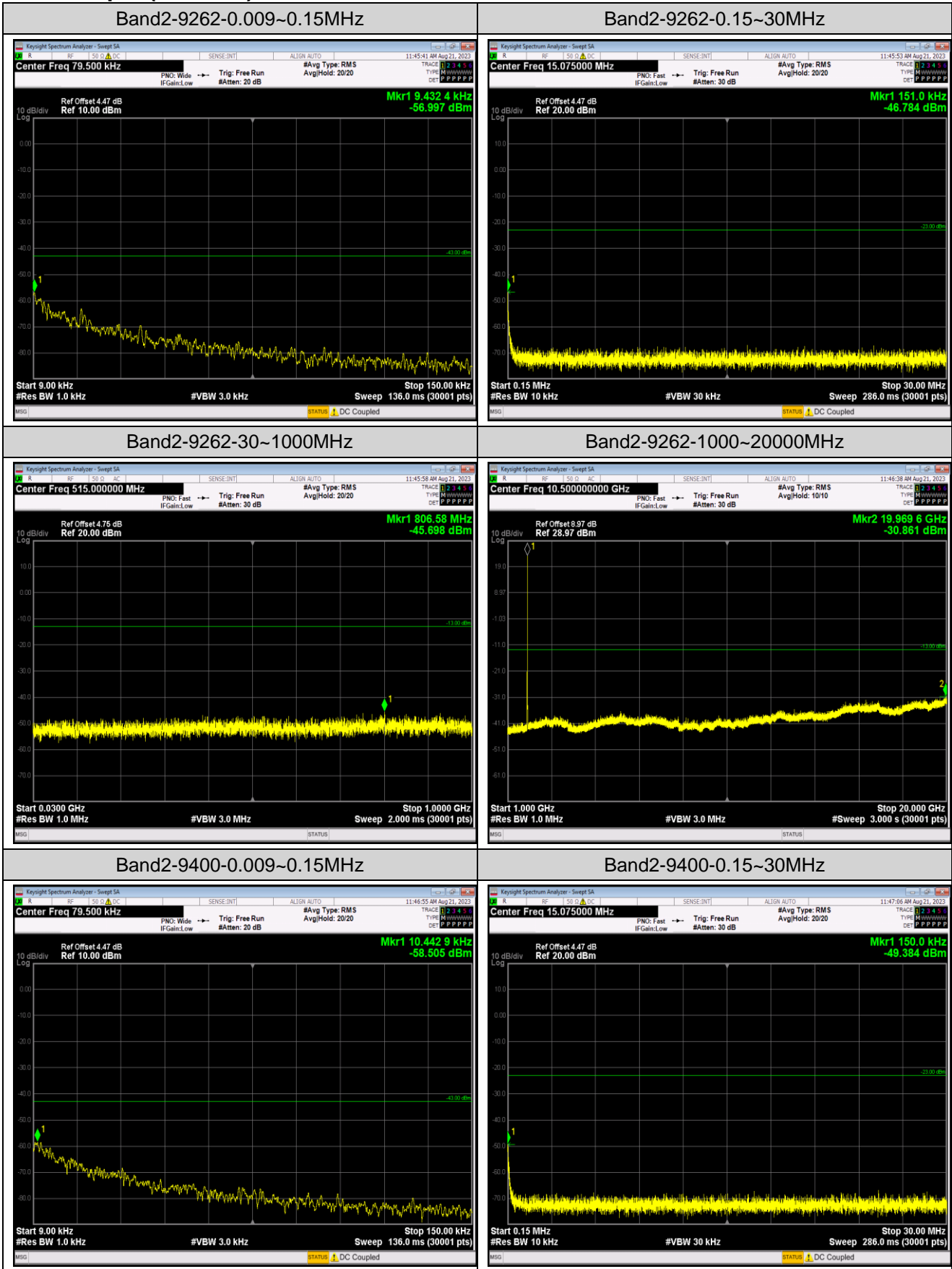


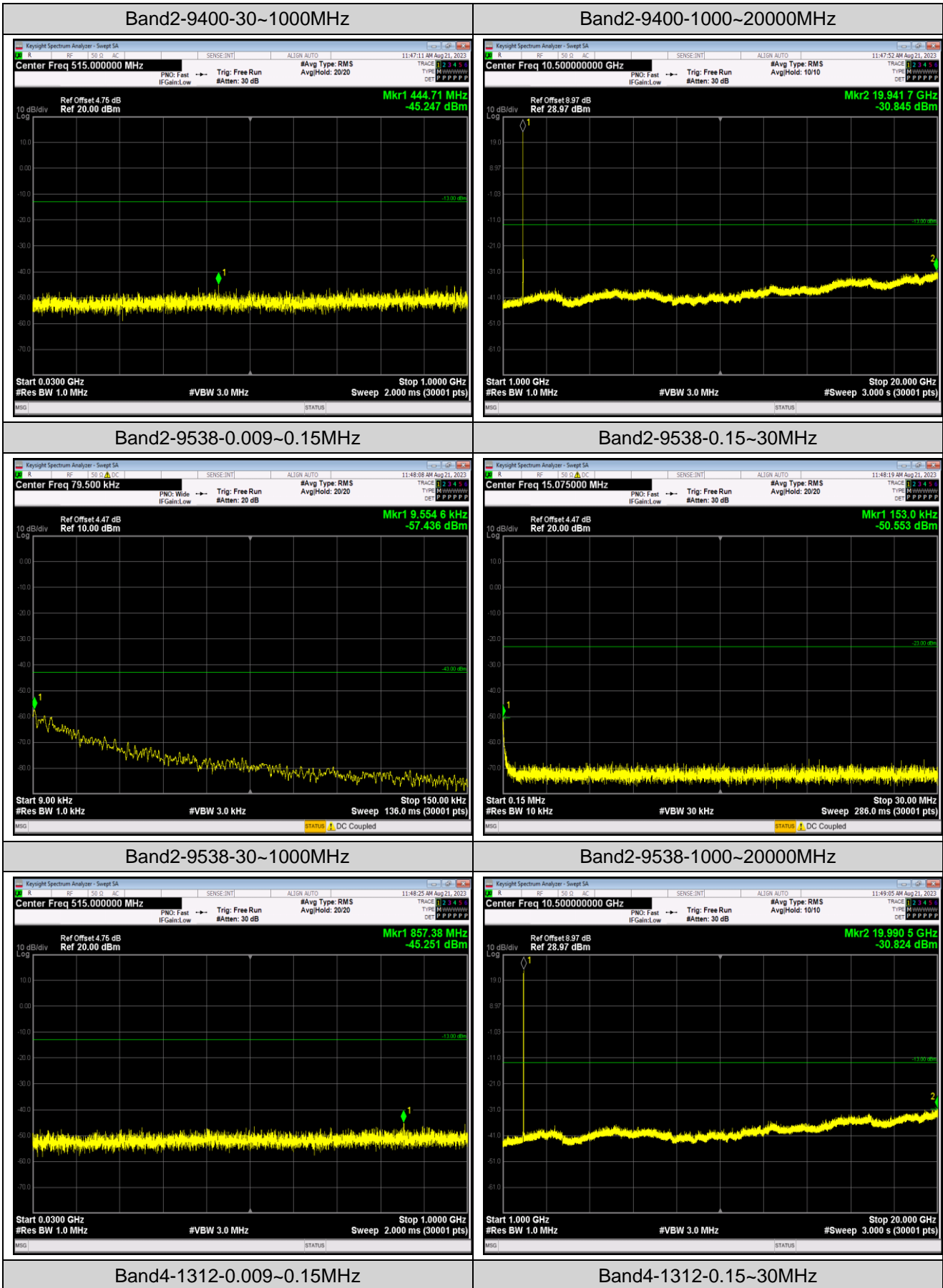
## Appendix E: Conducted Spurious Emission

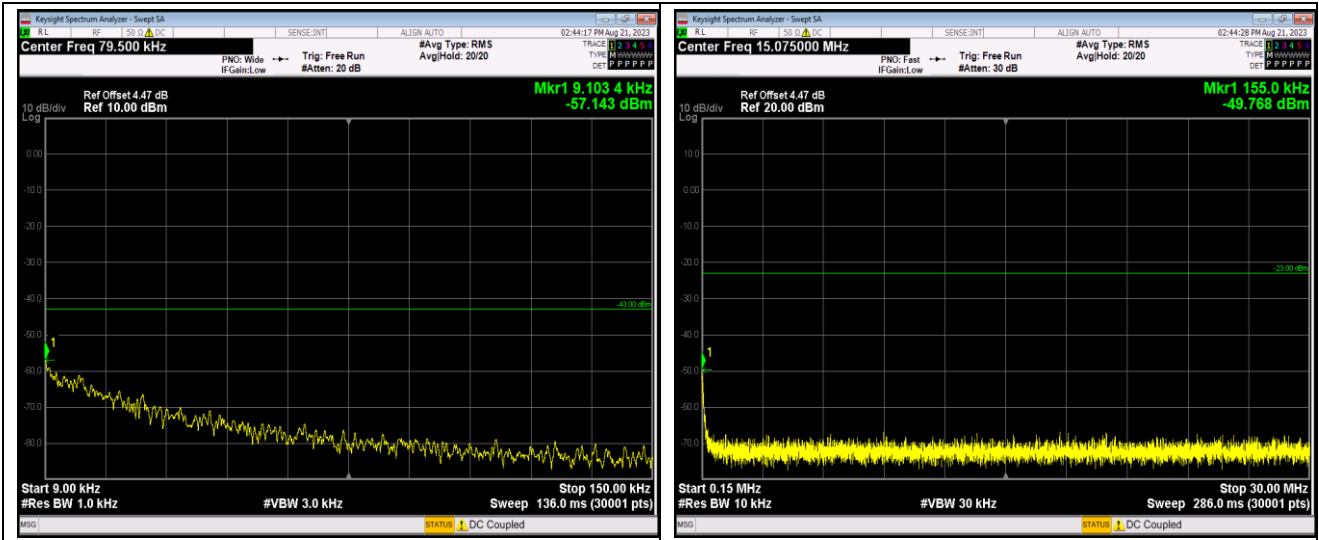
### Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-57	-43	PASS
Band2	9262	0.15~30MHz	0.15	-46.78	-23	PASS
Band2	9262	30~1000MHz	806.58	-45.7	-13	PASS
Band2	9262	1000~20000MHz	19969.6	-30.86	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-58.51	-43	PASS
Band2	9400	0.15~30MHz	0.15	-49.38	-23	PASS
Band2	9400	30~1000MHz	444.71	-45.25	-13	PASS
Band2	9400	1000~20000MHz	19941.73	-30.85	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-57.44	-43	PASS
Band2	9538	0.15~30MHz	0.15	-50.55	-23	PASS
Band2	9538	30~1000MHz	857.38	-45.25	-13	PASS
Band2	9538	1000~20000MHz	19990.5	-30.82	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.14	-43	PASS
Band4	1312	0.15~30MHz	0.15	-49.77	-23	PASS
Band4	1312	30~1000MHz	820.03	-46.02	-13	PASS
Band4	1312	1000~20000MHz	19984.17	-30.64	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-58.16	-43	PASS
Band4	1413	0.15~30MHz	0.16	-49.57	-23	PASS
Band4	1413	30~1000MHz	759.08	-46.66	-13	PASS
Band4	1413	1000~20000MHz	19899.93	-30.83	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-58.65	-43	PASS
Band4	1513	0.15~30MHz	0.15	-48.48	-23	PASS
Band4	1513	30~1000MHz	672.82	-45.7	-13	PASS
Band4	1513	1000~20000MHz	20000	-30.86	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-58.26	-33	PASS
Band5	4132	0.15~30MHz	0.16	-48.64	-13	PASS
Band5	4132	30~1000MHz	429.48	-54.54	-13	PASS
Band5	4132	1000~10000MHz	3133.9	-37.58	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.93	-33	PASS
Band5	4183	0.15~30MHz	0.17	-49.54	-13	PASS
Band5	4183	30~1000MHz	514.74	-55.64	-13	PASS
Band5	4183	1000~10000MHz	5988.1	-37.48	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-57.62	-33	PASS
Band5	4233	0.15~30MHz	0.15	-46.82	-13	PASS
Band5	4233	30~1000MHz	707.77	-55.29	-13	PASS
Band5	4233	1000~10000MHz	5724.7	-37.34	-13	PASS

Test Graphs(WCDMA)

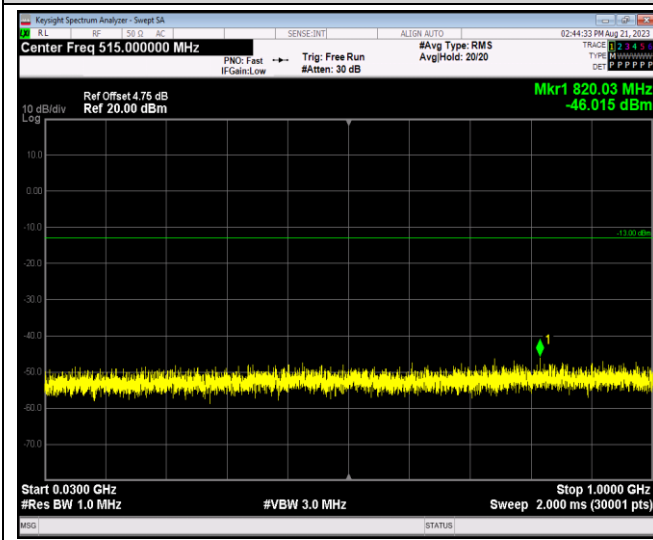




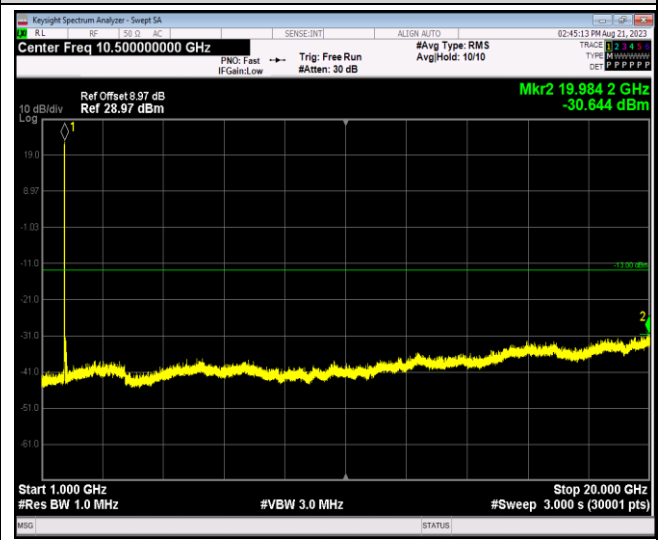


Band4-1312-30~1000MHz

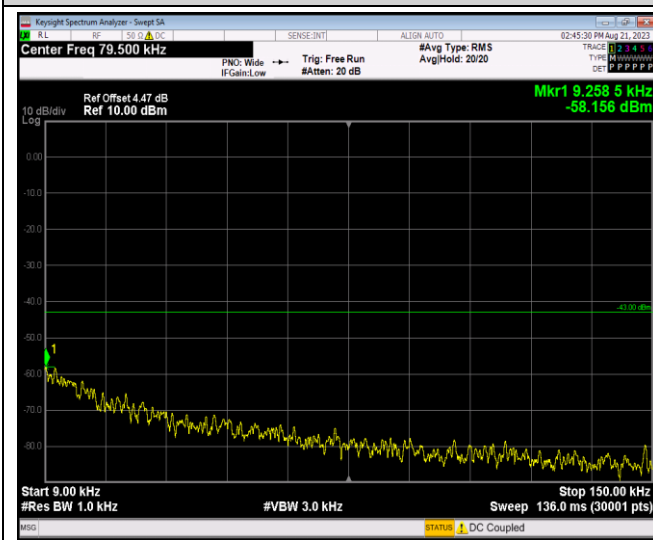
Band4-1312-1000~20000MHz



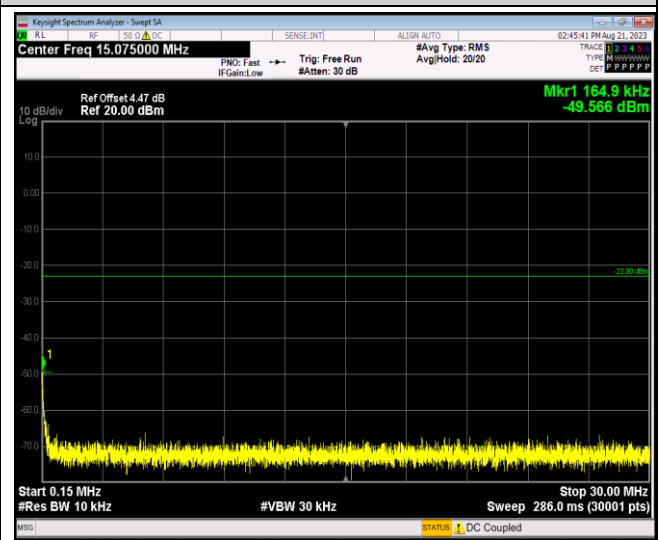
Band4-1413-0.009~0.15MHz



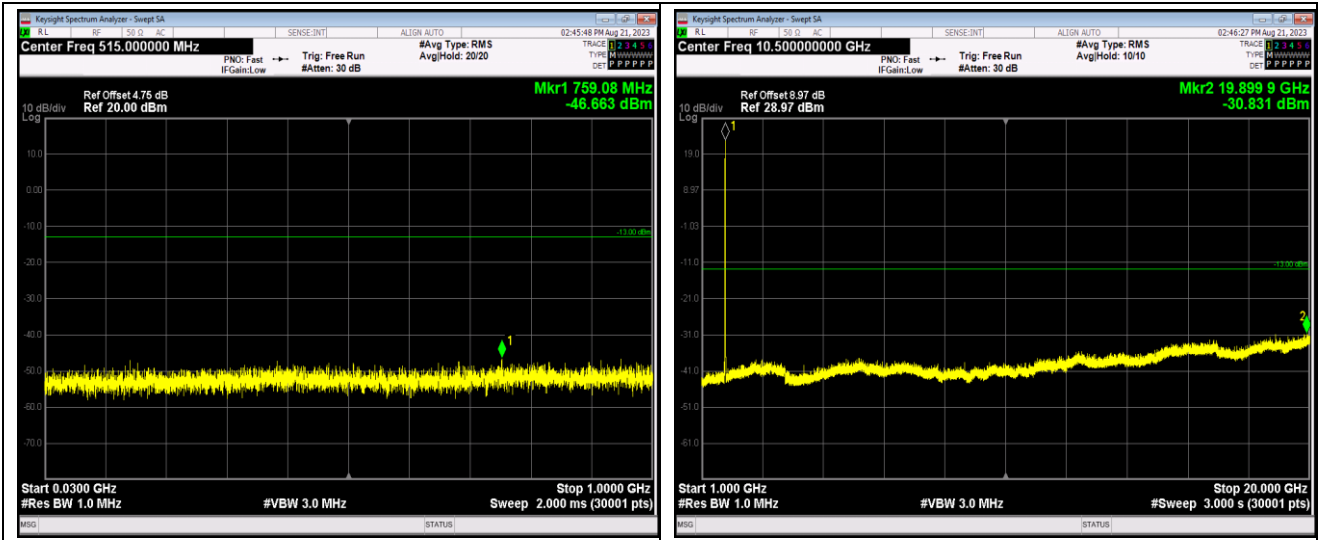
Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz

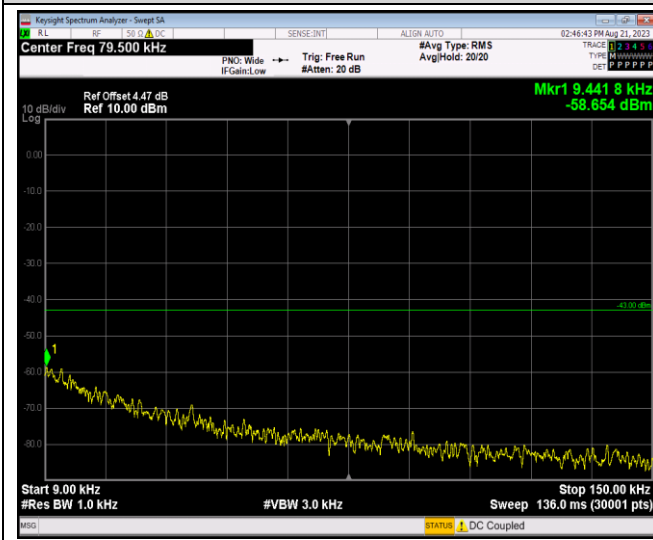


Band4-1413-1000~20000MHz

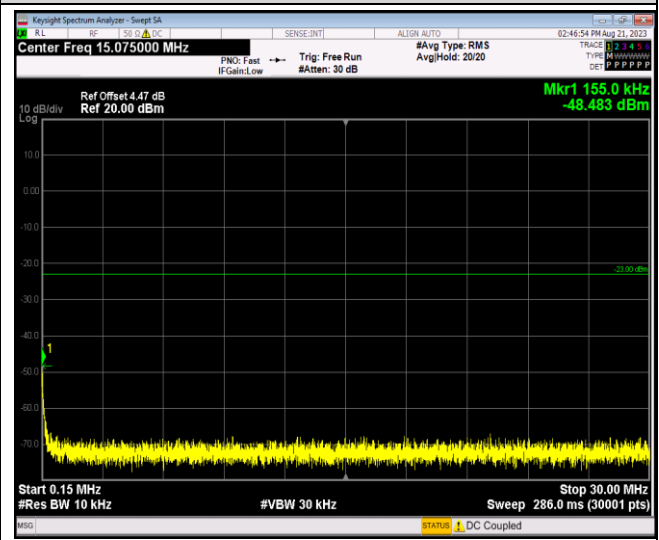


Band4-1513-0.009~0.15MHz

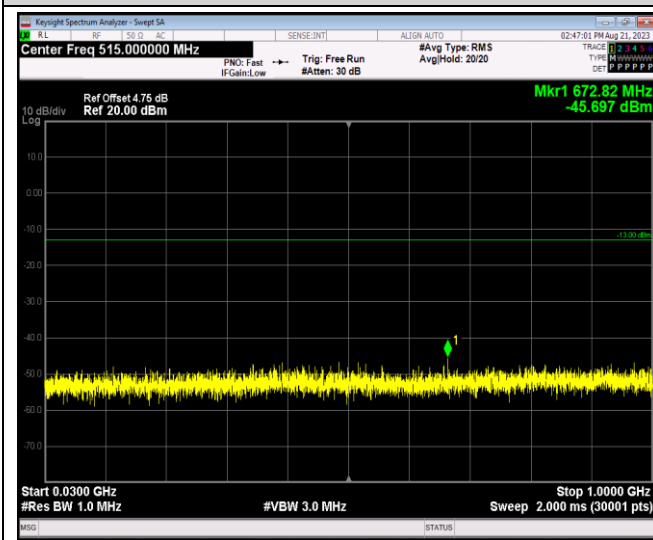
Band4-1513-0.15~30MHz



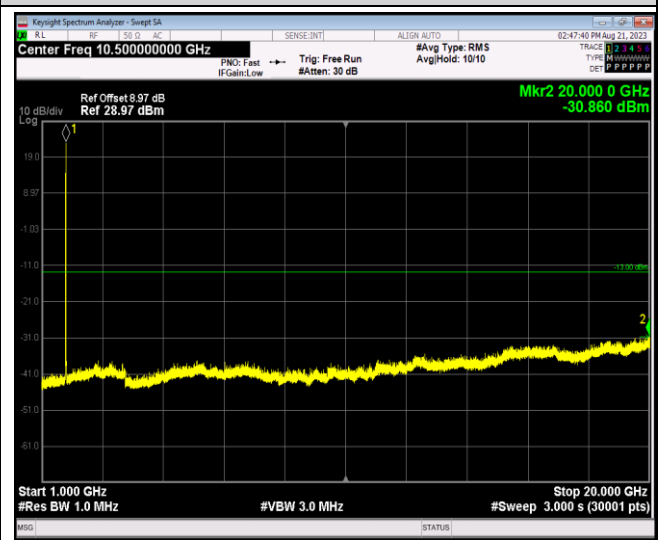
Band4-1513-30~1000MHz



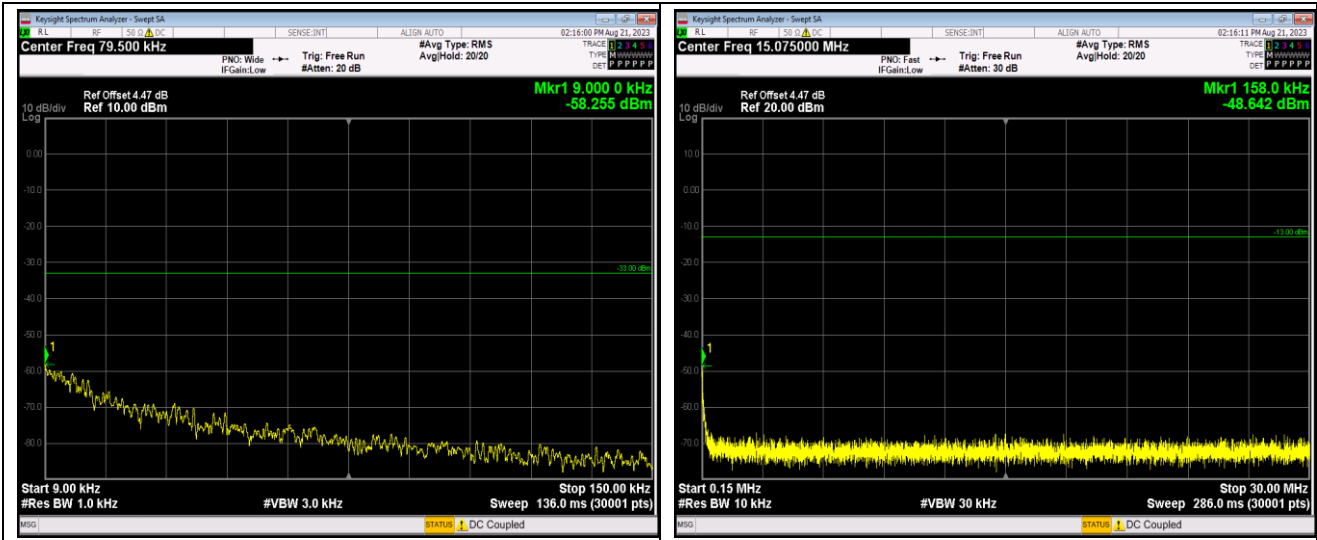
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

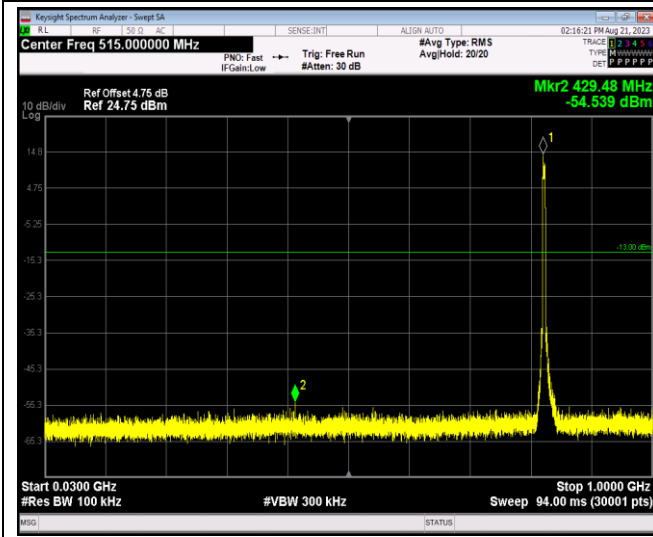


Band5-4132-0.15~30MHz

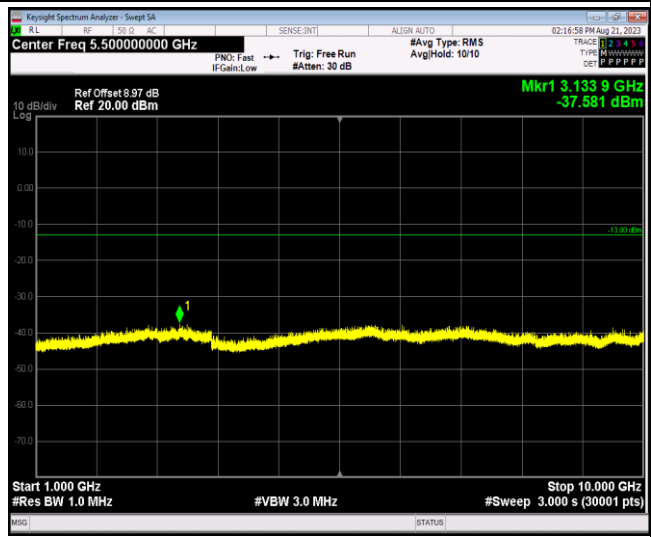


Band5-4132-30~1000MHz

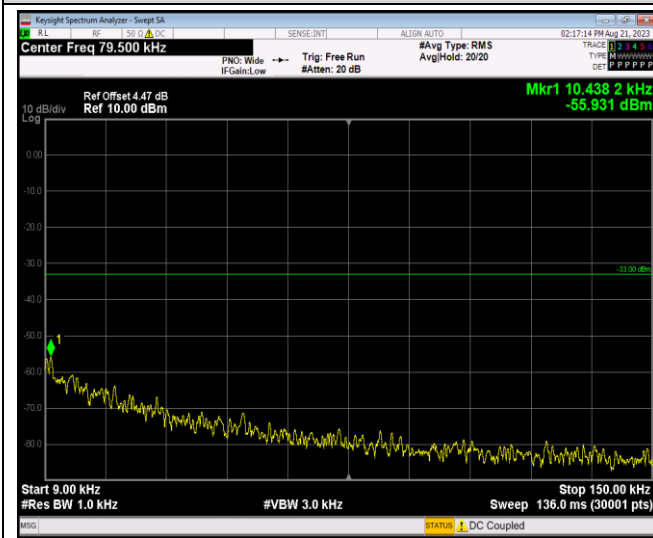
Band5-4132-1000~10000MHz



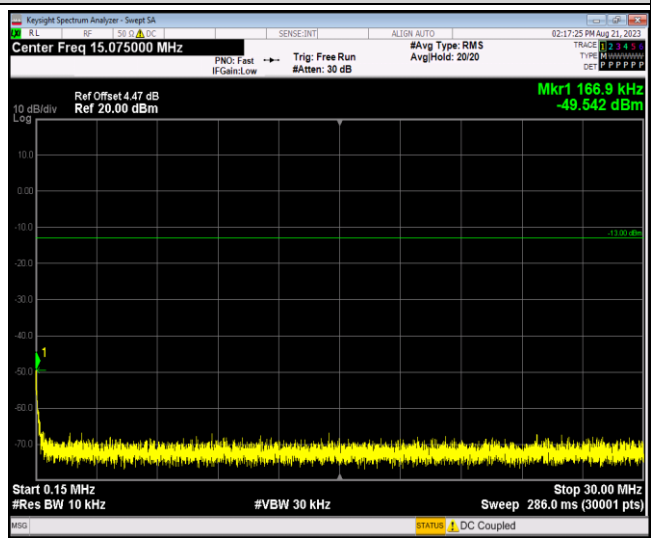
Band5-4183-0.009~0.15MHz



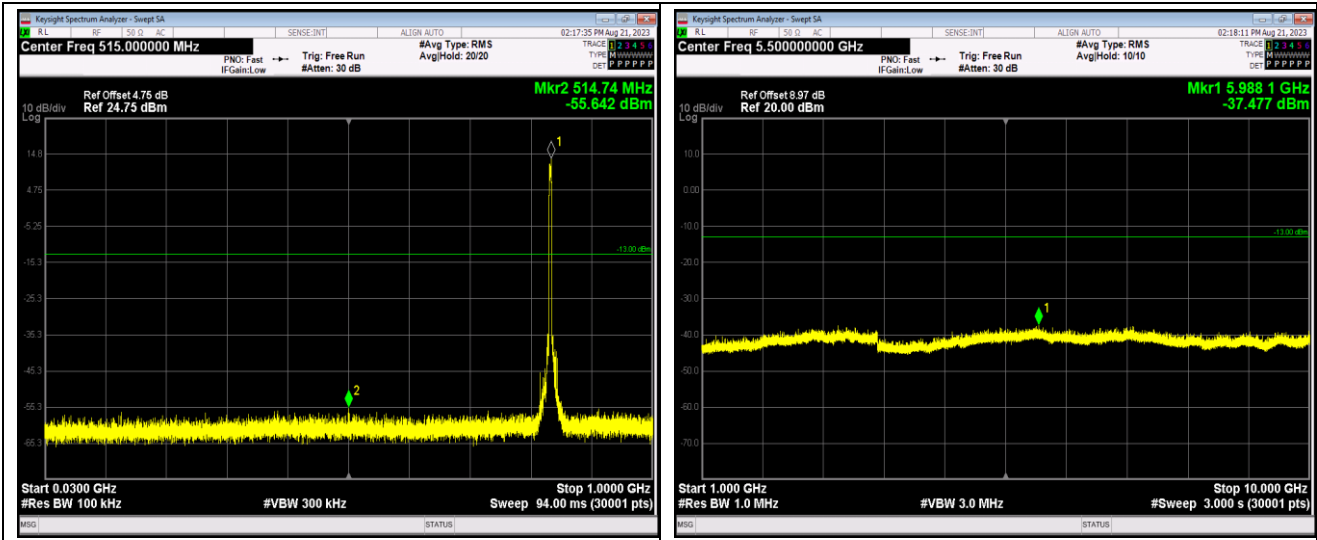
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz

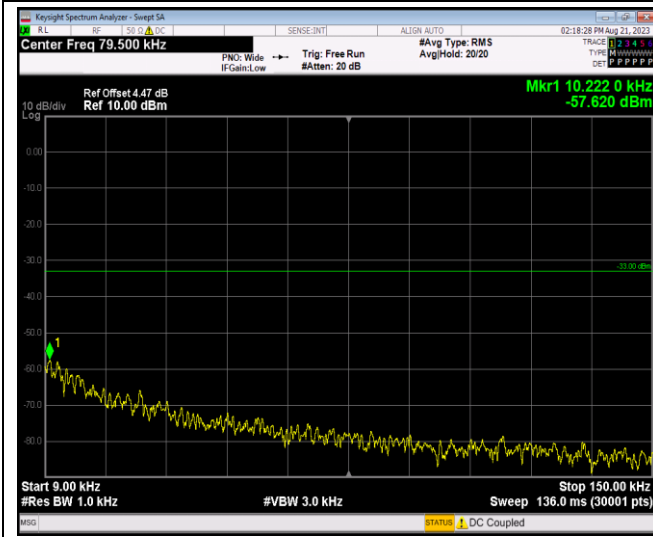


Band5-4183-1000~10000MHz

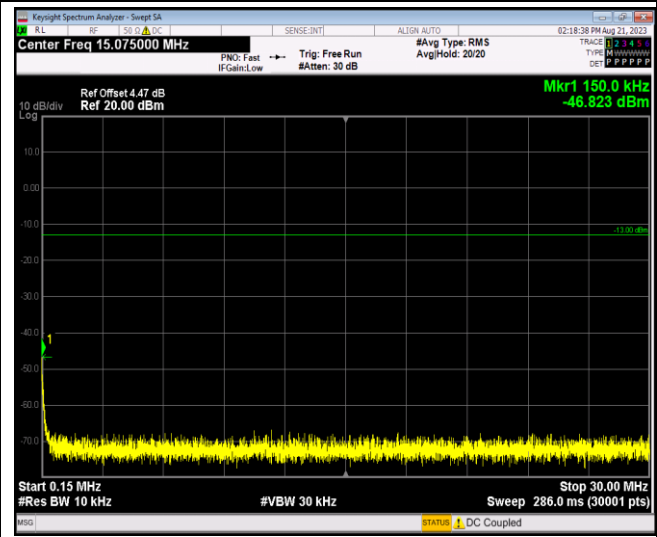


Band5-4233-0.009~0.15MHz

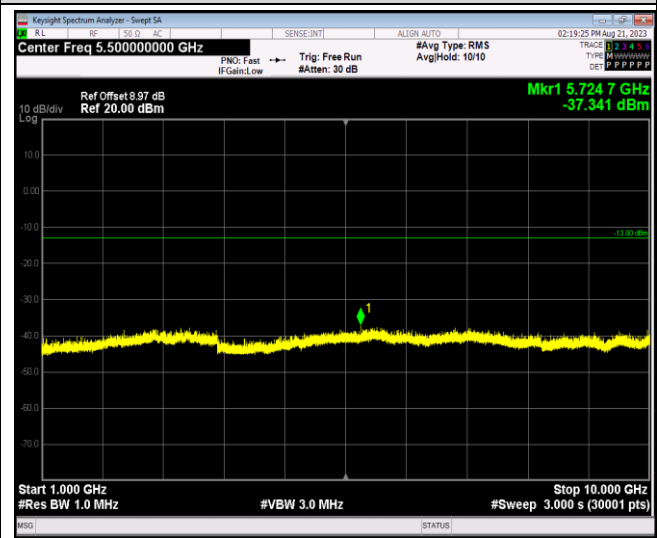
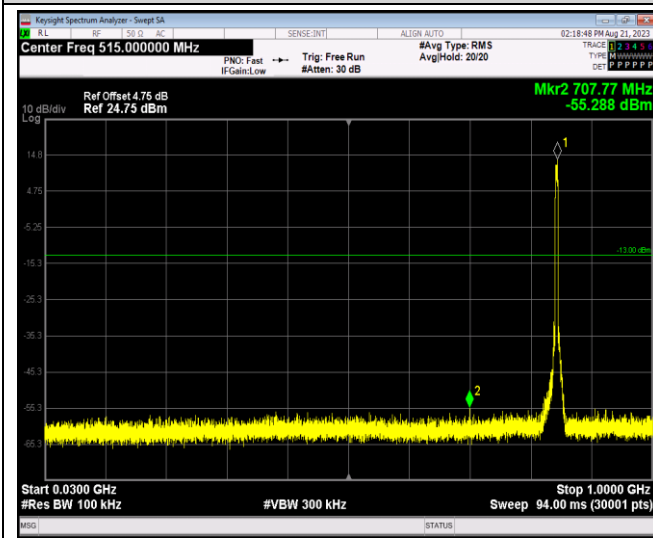
Band5-4233-0.15~30MHz



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		
3.87	-30	-2.83	-0.003383	±2.5	Pass
	-20	-2.35	-0.002809		
	-10	-2.95	-0.003526		
	0	-3.68	-0.004399		
	10	-4.95	-0.005917		
	20	-1.67	-0.001996		
	30	-4.04	-0.004829		
	40	-4.53	-0.005415		
	50	-0.99	-0.001183		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.38	-0.005235	±2.5	Pass
	3.87	-3.49	-0.004172		
	4.45	-5.19	-0.006204		
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		
3.87	-30	-3.15	-0.001818	Within authorized band for BAND IV	Pass
	-20	-2.24	-0.001293		
	-10	-5.11	-0.002949		
	0	-5.71	-0.003296		
	10	-4.58	-0.002643		
	20	-4.21	-0.002430		
	30	-3.88	-0.002239		
	40	-4.27	-0.002465		
	50	-2.27	-0.001310		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-5.52	-0.003186	Within authorized band for BAND IV	Pass
	3.87	-7.51	-0.004335		
	4.45	-4.49	-0.002591		
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		
3.87	-30	-4.75	-0.002527	Within authorized band for BAND II	Pass
	-20	0.02	0.000011		
	-10	-1.41	-0.000750		
	0	-2.11	-0.001122		
	10	-3.93	-0.002090		
	20	1.27	0.000676		
	30	-0.45	-0.000239		
	40	-0.14	-0.000074		
	50	-1.29	-0.000686		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.42	-0.000223	Within authorized band for BAND II	Pass
	3.87	-2.80	-0.001489		
	4.45	-2.80	-0.001489		
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

Band2-9400	Band4-1413