

## 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	23.67	22.67	33.01	PASS
Band2	TestMode	9262	23.63	22.63	33.01	PASS
Band2	Voice	9400	23.72	22.72	33.01	PASS
Band2	TestMode	9400	23.73	22.73	33.01	PASS
Band2	TestMode	9538	23.70	22.7	33.01	PASS
Band2	Voice	9538	23.64	22.64	33.01	PASS
Band4	Voice	1312	23.60	22.6	30.00	PASS
Band4	TestMode	1312	23.65	22.65	30.00	PASS
Band4	TestMode	1413	23.69	22.69	30.00	PASS
Band4	Voice	1413	23.64	22.64	30.00	PASS
Band4	Voice	1513	23.54	22.54	30.00	PASS
Band4	TestMode	1513	23.62	22.62	30.00	PASS
Band5	TestMode	4132	24.16	20.51	38.45	PASS
Band5	Voice	4132	24.08	20.43	38.45	PASS
Band5	Voice	4183	24.09	20.44	38.45	PASS
Band5	TestMode	4183	24.20	20.55	38.45	PASS
Band5	Voice	4233	24.02	20.37	38.45	PASS
Band5	TestMode	4233	24.06	20.41	38.45	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.65	21.65	33.01	PASS
Band2	9262	2	22.04	21.04	33.01	PASS
Band2	9262	3	22.04	21.04	33.01	PASS
Band2	9262	4	22.05	21.05	33.01	PASS
Band2	9400	1	22.75	21.75	33.01	PASS
Band2	9400	2	22.17	21.17	33.01	PASS
Band2	9400	3	22.16	21.16	33.01	PASS
Band2	9400	4	22.15	21.15	33.01	PASS
Band2	9538	1	22.70	21.7	33.01	PASS
Band2	9538	2	22.12	21.12	33.01	PASS
Band2	9538	3	22.13	21.13	33.01	PASS
Band2	9538	4	22.08	21.08	33.01	PASS

Band4	1312	1	22.63	21.63	30.00	PASS
Band4	1312	2	22.06	21.06	30.00	PASS
Band4	1312	3	22.08	21.08	30.00	PASS
Band4	1312	4	22.06	21.06	30.00	PASS
Band4	1413	1	22.69	21.69	30.00	PASS
Band4	1413	2	22.14	21.14	30.00	PASS
Band4	1413	3	22.15	21.15	30.00	PASS
Band4	1413	4	22.13	21.13	30.00	PASS
Band4	1513	1	22.65	21.65	30.00	PASS
Band4	1513	2	22.05	21.05	30.00	PASS
Band4	1513	3	22.08	21.08	30.00	PASS
Band4	1513	4	22.07	21.07	30.00	PASS
Band5	4132	1	23.17	19.52	38.5	PASS
Band5	4132	2	22.59	18.94	38.5	PASS
Band5	4132	3	22.60	18.95	38.5	PASS
Band5	4132	4	22.60	18.95	38.5	PASS
Band5	4183	1	23.22	19.57	38.5	PASS
Band5	4183	2	22.67	19.02	38.5	PASS
Band5	4183	3	22.68	19.03	38.5	PASS
Band5	4183	4	22.63	18.98	38.5	PASS
Band5	4233	1	23.09	19.44	38.5	PASS
Band5	4233	2	22.54	18.89	38.5	PASS
Band5	4233	3	22.54	18.89	38.5	PASS
Band5	4233	4	22.53	18.88	38.5	PASS

### Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.64	20.64	33.01	PASS
Band2	9262	2	22.10	21.1	33.01	PASS
Band2	9262	3	22.60	21.6	33.01	PASS
Band2	9262	4	21.60	20.6	33.01	PASS
Band2	9262	5	23.65	22.65	33.01	PASS
Band2	9400	1	21.67	20.67	33.01	PASS
Band2	9400	2	22.15	21.15	33.01	PASS
Band2	9400	3	22.73	21.73	33.01	PASS
Band2	9400	4	21.68	20.68	33.01	PASS
Band2	9400	5	23.72	22.72	33.01	PASS
Band2	9538	1	21.68	20.68	33.01	PASS
Band2	9538	2	22.17	21.17	33.01	PASS
Band2	9538	3	22.70	21.7	33.01	PASS

Band2	9538	4	21.66	20.66	33.01	PASS
Band2	9538	5	23.70	22.7	33.01	PASS
Band4	1312	1	21.60	20.6	30.00	PASS
Band4	1312	2	22.09	21.09	30.00	PASS
Band4	1312	3	22.62	21.62	30.00	PASS
Band4	1312	4	21.62	20.62	30.00	PASS
Band4	1312	5	23.66	22.66	30.00	PASS
Band4	1413	1	21.68	20.68	30.00	PASS
Band4	1413	2	22.18	21.18	30.00	PASS
Band4	1413	3	22.67	21.67	30.00	PASS
Band4	1413	4	21.68	20.68	30.00	PASS
Band4	1413	5	23.67	22.67	30.00	PASS
Band4	1513	1	21.61	20.61	30.00	PASS
Band4	1513	2	22.11	21.11	30.00	PASS
Band4	1513	3	22.64	21.64	30.00	PASS
Band4	1513	4	21.62	20.62	30.00	PASS
Band4	1513	5	23.64	22.64	30.00	PASS
Band5	4132	1	21.13	17.48	38.5	PASS
Band5	4132	2	21.65	18	38.5	PASS
Band5	4132	3	22.18	18.53	38.5	PASS
Band5	4132	4	21.16	17.51	38.5	PASS
Band5	4132	5	23.16	19.51	38.5	PASS
Band5	4183	1	21.22	17.57	38.5	PASS
Band5	4183	2	21.68	18.03	38.5	PASS
Band5	4183	3	22.21	18.56	38.5	PASS
Band5	4183	4	21.21	17.56	38.5	PASS
Band5	4183	5	23.21	19.56	38.5	PASS
Band5	4233	1	21.09	17.44	38.5	PASS
Band5	4233	2	21.56	17.91	38.5	PASS
Band5	4233	3	22.09	18.44	38.5	PASS
Band5	4233	4	21.07	17.42	38.5	PASS
Band5	4233	5	23.07	19.42	38.5	PASS

Remark:  $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$ . (For Band2 & 4)  
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$ . (For Band5)

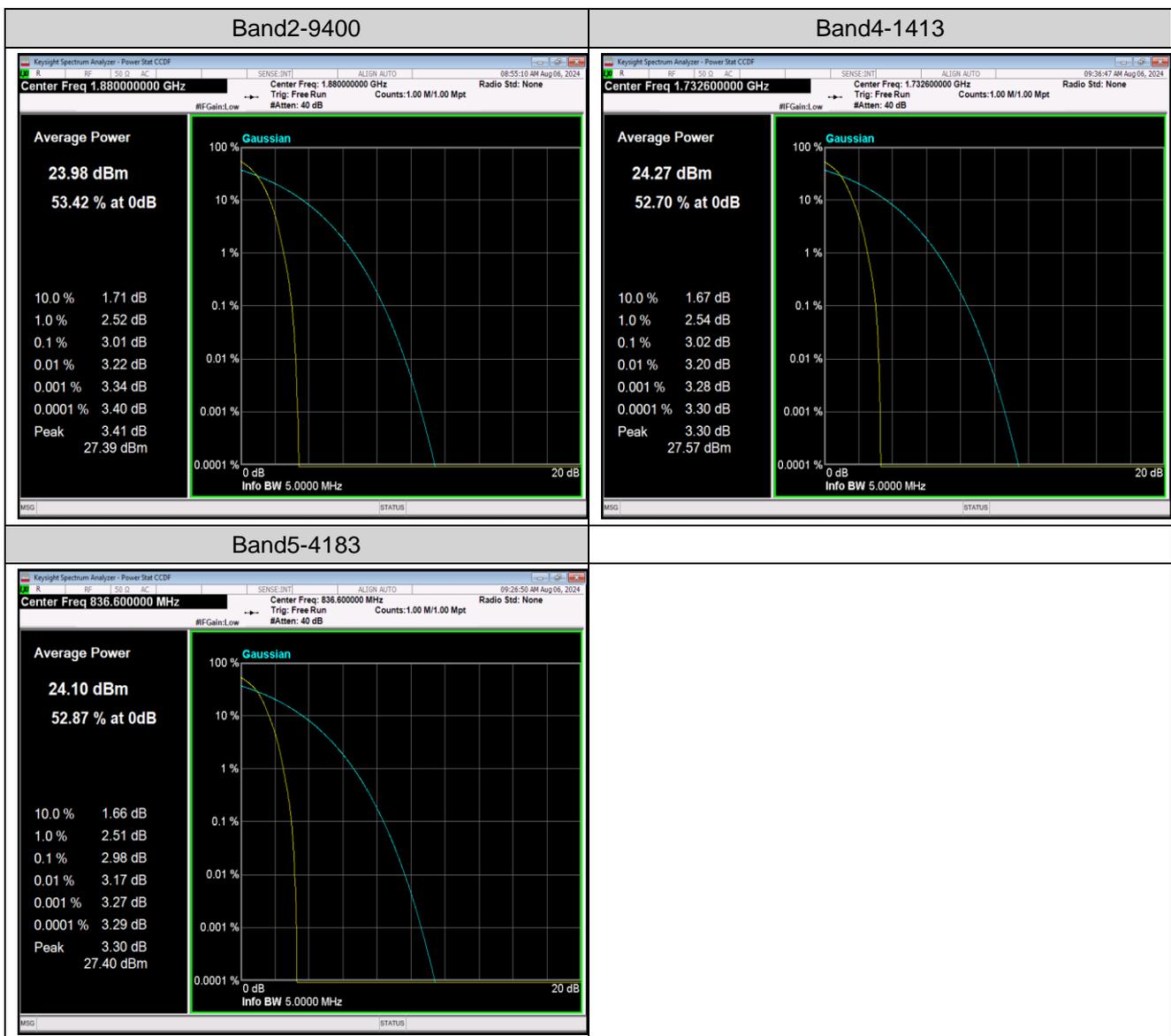
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.01	13	PASS
Band4	1413	3.02	13	PASS
Band5	4183	2.98	13	PASS

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

### Test Graphs(WCDMA)



**AppendixC:26dB Bandwidth and Occupied Bandwidth****Test Result(WCDMA)**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1607	4.713	---	PASS
Band2	9400	4.1528	4.694	---	PASS
Band2	9538	4.1508	4.697	---	PASS
Band4	1312	4.1594	4.694	---	PASS
Band4	1413	4.1593	4.695	---	PASS
Band4	1513	4.1609	4.693	---	PASS
Band5	4132	4.1778	4.731	---	PASS
Band5	4183	4.1639	4.695	---	PASS
Band5	4233	4.1762	4.712	---	PASS

## Test Graphs(WCDMA)





**AppendixD:Band Edge****Test Result(WCDMA)**

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.58	-13	PASS
Band2	9538	1910.00	-19.72	-13	PASS
Band4	1312	1710.00	-21.52	-13	PASS
Band4	1513	1755.00	-21.41	-13	PASS
Band5	4132	824.00	-14.10	-13	PASS
Band5	4233	849.00	-17.51	-13	PASS

## Test Graphs(WCDMA)

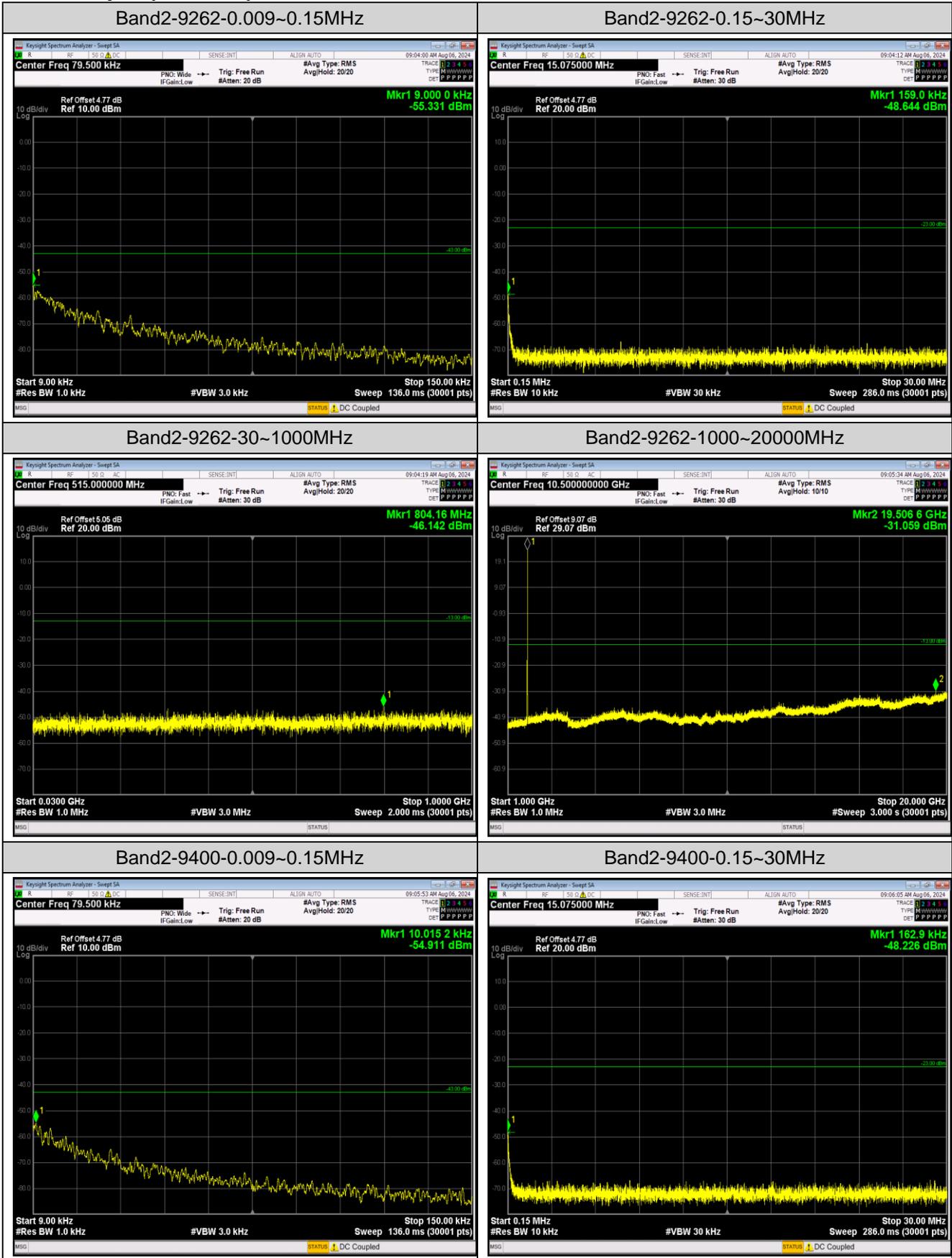


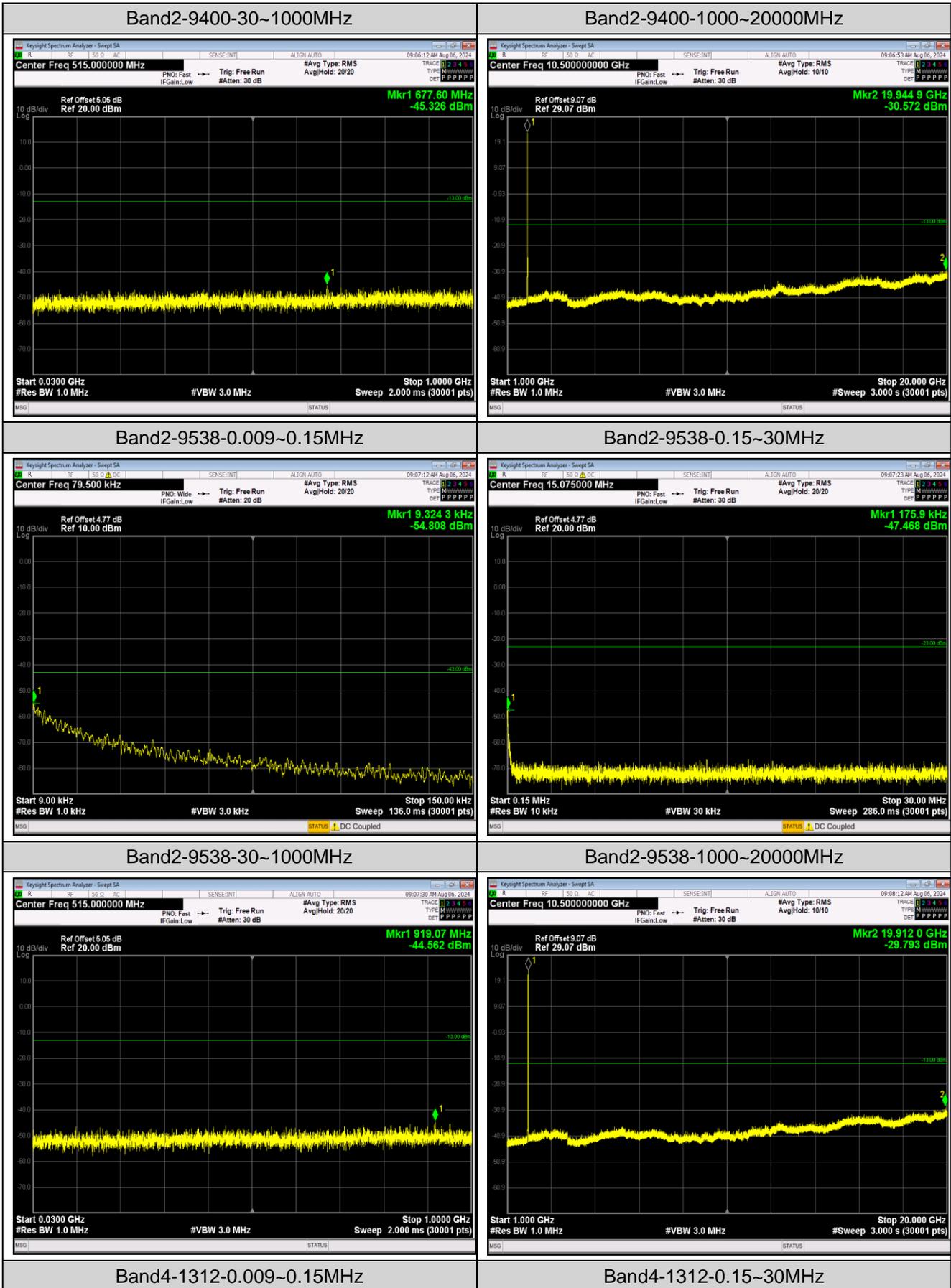
## Appendix E: Conducted Spurious Emission

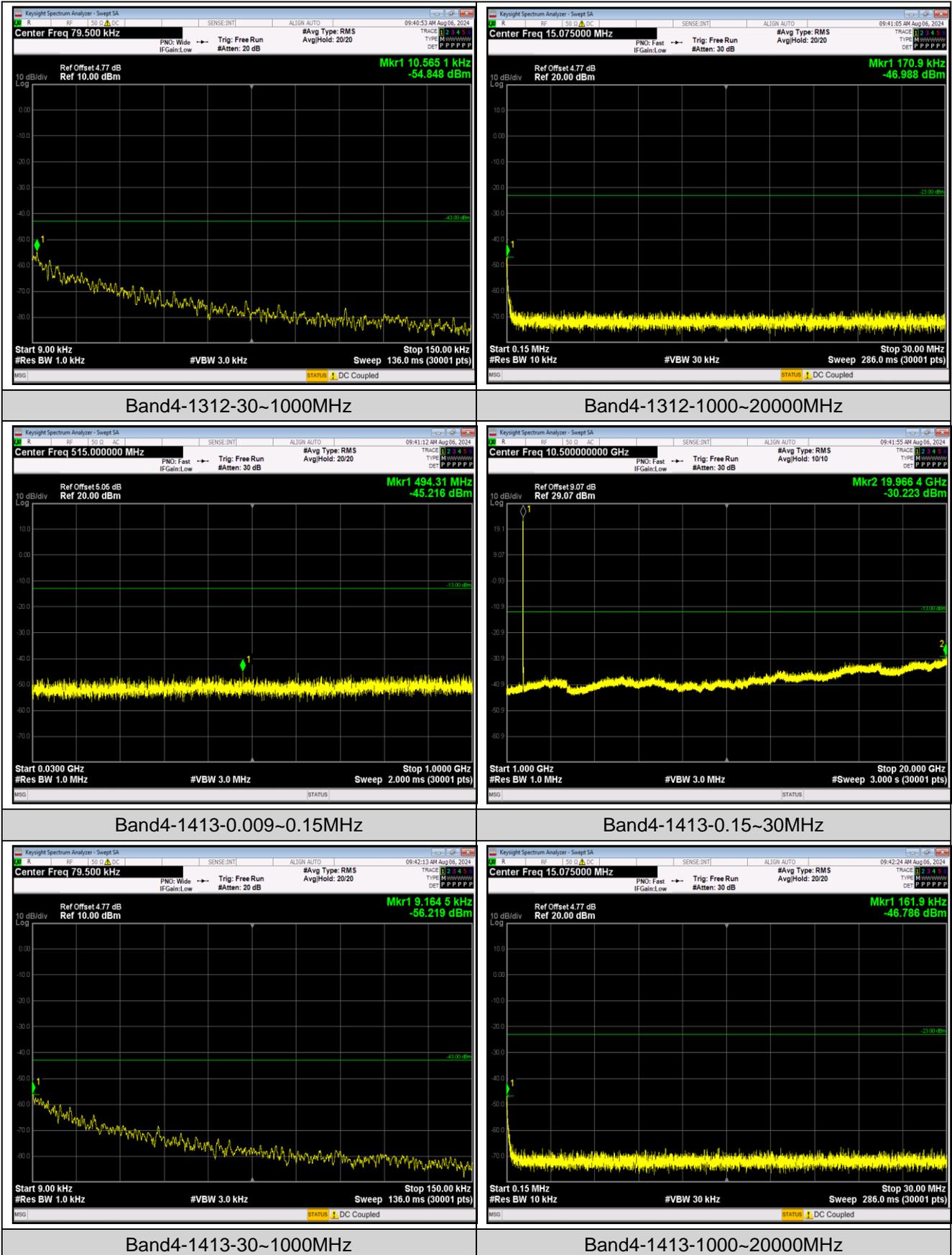
### Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.33	-43	PASS
Band2	9262	0.15~30MHz	0.16	-48.64	-23	PASS
Band2	9262	30~1000MHz	804.16	-46.14	-13	PASS
Band2	9262	1000~20000MHz	19506.63	-31.06	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-54.91	-43	PASS
Band2	9400	0.15~30MHz	0.16	-48.23	-23	PASS
Band2	9400	30~1000MHz	677.6	-45.33	-13	PASS
Band2	9400	1000~20000MHz	19944.9	-30.57	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-54.81	-43	PASS
Band2	9538	0.15~30MHz	0.18	-47.47	-23	PASS
Band2	9538	30~1000MHz	919.07	-44.56	-13	PASS
Band2	9538	1000~20000MHz	19911.97	-29.79	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-54.85	-43	PASS
Band4	1312	0.15~30MHz	0.17	-46.99	-23	PASS
Band4	1312	30~1000MHz	494.31	-45.22	-13	PASS
Band4	1312	1000~20000MHz	19966.43	-30.22	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.22	-43	PASS
Band4	1413	0.15~30MHz	0.16	-46.79	-23	PASS
Band4	1413	30~1000MHz	589.88	-45.25	-13	PASS
Band4	1413	1000~20000MHz	19916.4	-30.98	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.05	-43	PASS
Band4	1513	0.15~30MHz	0.15	-47.79	-23	PASS
Band4	1513	30~1000MHz	830.96	-45.1	-13	PASS
Band4	1513	1000~20000MHz	19969.6	-29.54	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-56.45	-33	PASS
Band5	4132	0.15~30MHz	0.15	-46.34	-13	PASS
Band5	4132	30~1000MHz	546.88	-54.23	-13	PASS
Band5	4132	1000~10000MHz	5810.5	-37.16	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.12	-33	PASS
Band5	4183	0.15~30MHz	0.16	-47.44	-13	PASS
Band5	4183	30~1000MHz	989.98	-53.84	-13	PASS
Band5	4183	1000~10000MHz	5853.1	-37.1	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.8	-33	PASS
Band5	4233	0.15~30MHz	0.15	-46.92	-13	PASS
Band5	4233	30~1000MHz	569.71	-53.89	-13	PASS
Band5	4233	1000~10000MHz	6058.3	-37.12	-13	PASS

## Test Graphs(WCDMA)







Band4-1312-30~1000MHz

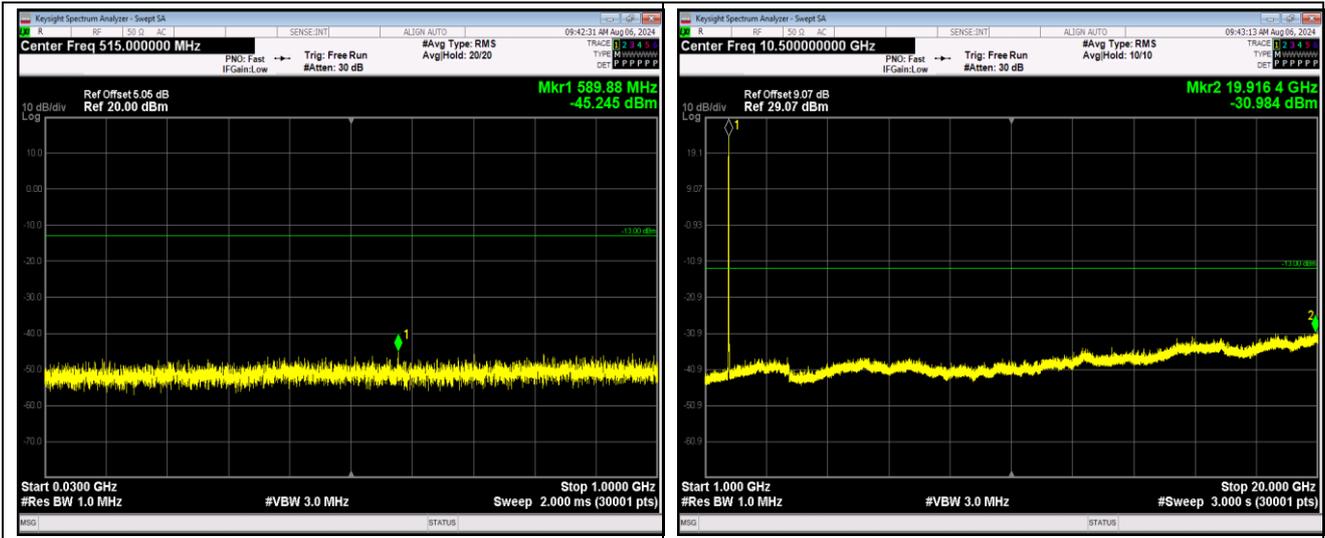
Band4-1312-1000~20000MHz

Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz

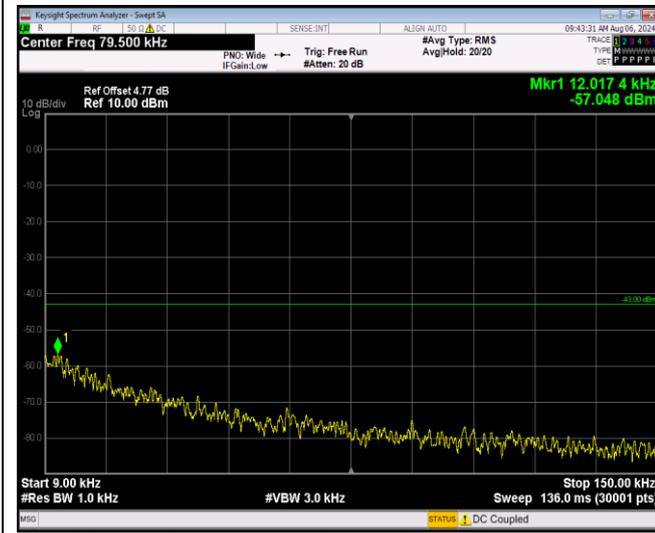
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz

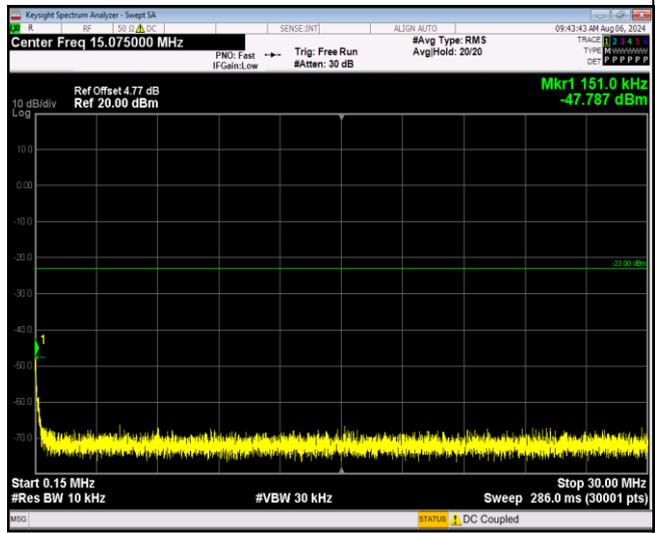


Band4-1513-0.009~0.15MHz

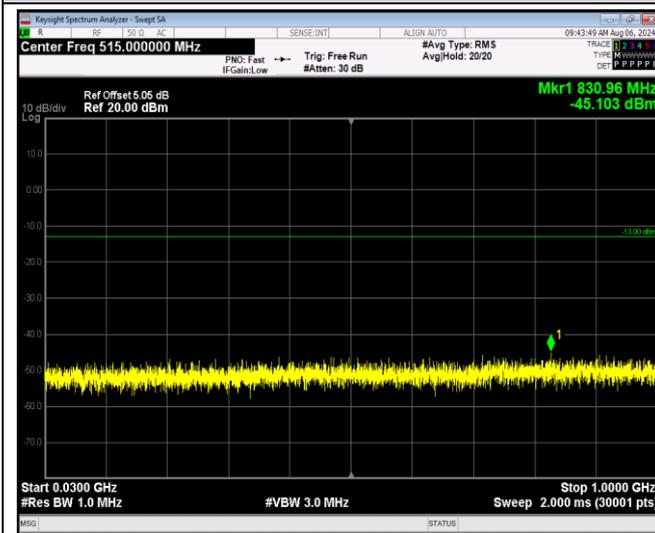
Band4-1513-0.15~30MHz



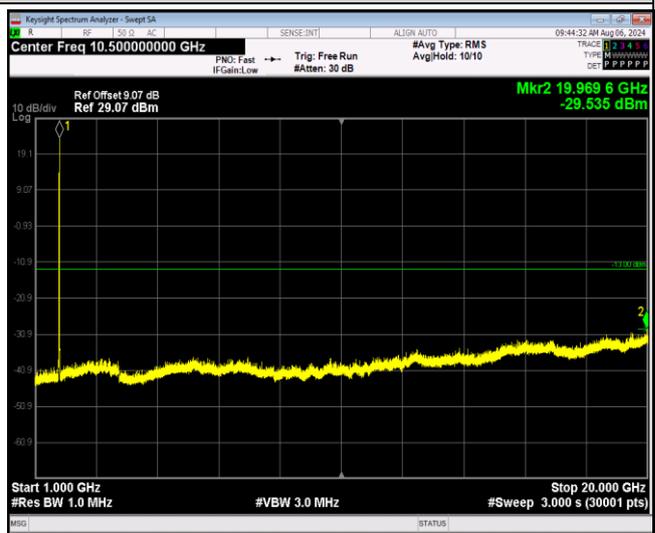
Band4-1513-30~1000MHz



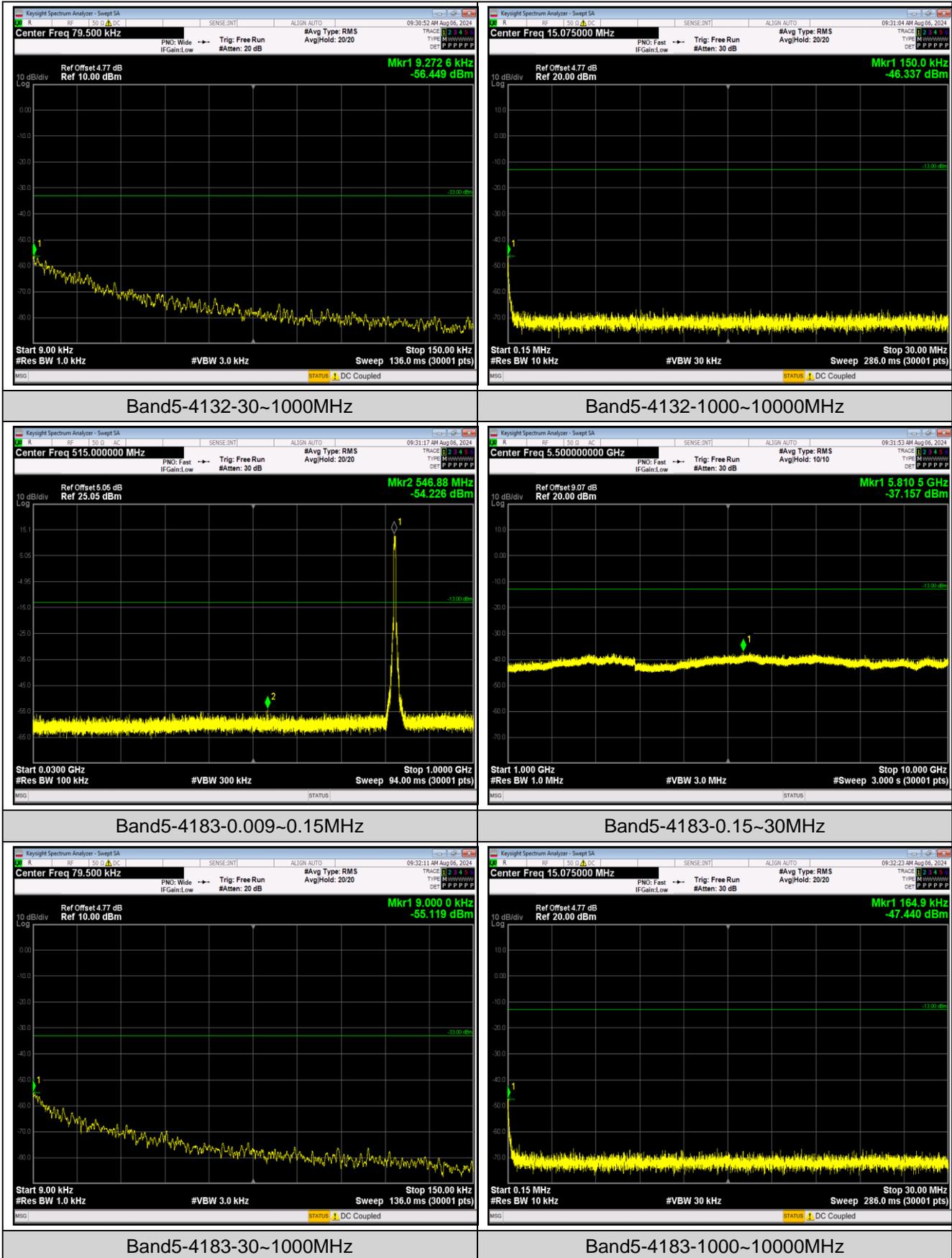
Band4-1513-1000~20000MHz

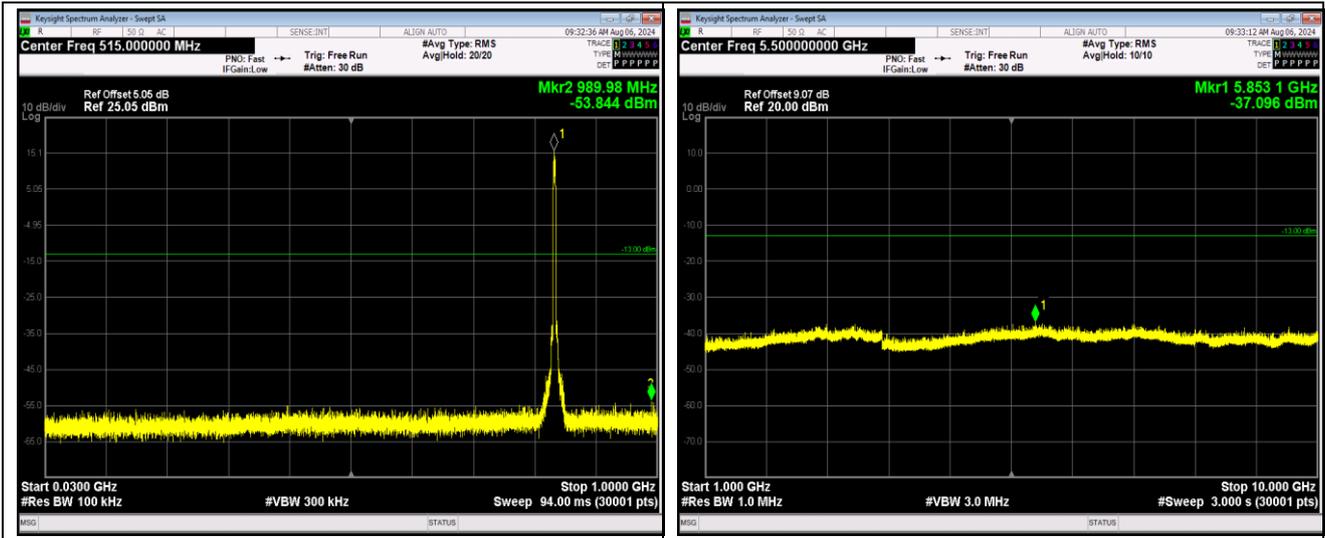


Band5-4132-0.009~0.15MHz



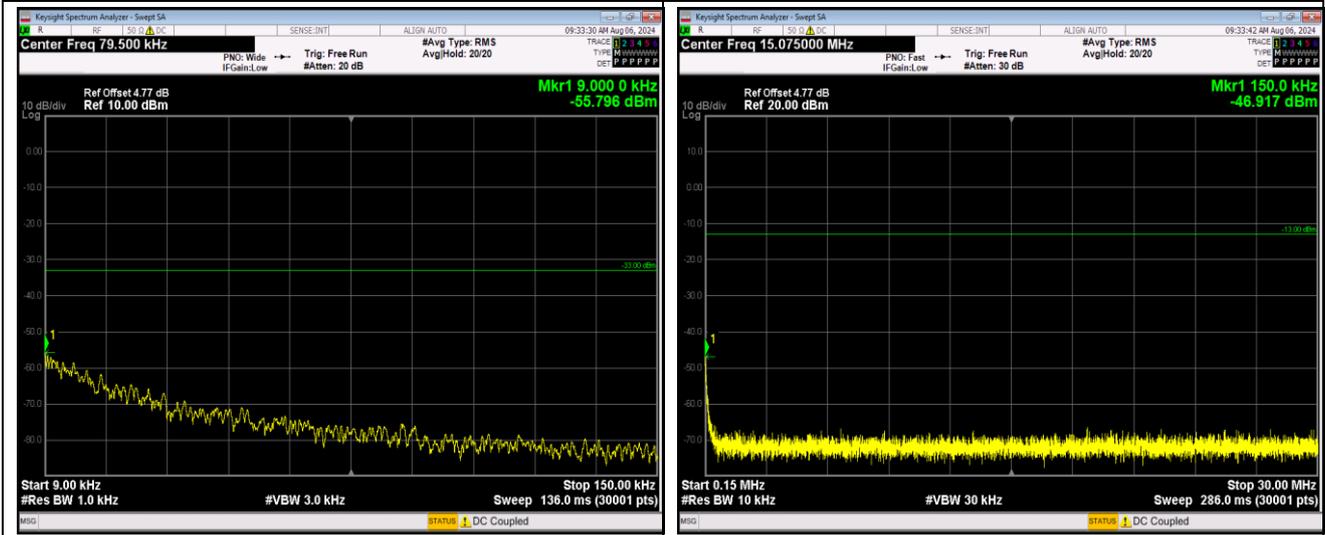
Band5-4132-0.15~30MHz





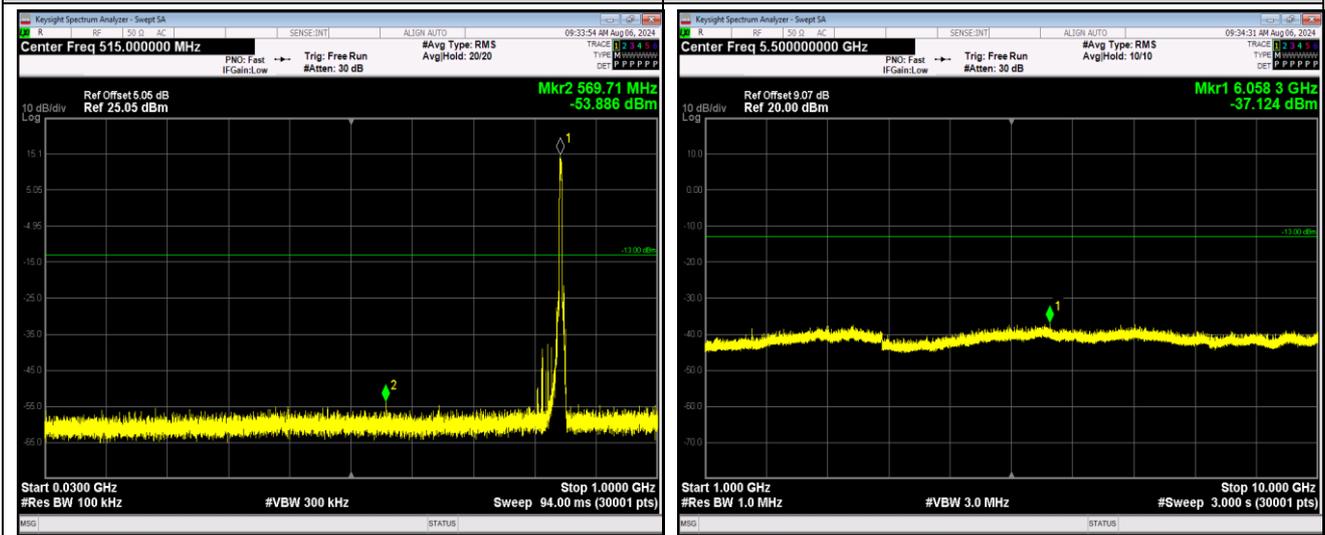
Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz



## AppendixF: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		
3.85	-30	-5.43	-0.006491	±2.5	Pass
	-20	-3.93	-0.004698		
	-10	-4.48	-0.005355		
	0	-5.05	-0.006036		
	10	-5.66	-0.006765		
	20	-2.83	-0.003383		
	30	-5.65	-0.006754		
	40	-2.47	-0.002952		
	50	-5.80	-0.006933		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-5.30	-0.006335	±2.5	Pass
	3.85	-4.38	-0.005235		
	4.40	-3.03	-0.003622		
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	-5.18	-0.002990	Within authorized band for BAND IV	Pass
	-20	-4.92	-0.002840		
	-10	-4.79	-0.002765		
	0	-4.46	-0.002574		
	10	-3.60	-0.002078		
	20	-3.60	-0.002078		
	30	-2.89	-0.001668		
	40	-2.80	-0.001616		
	50	-2.91	-0.001680		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-6.02	-0.003475	Within authorized band for BAND IV	Pass
	3.85	-6.24	-0.003602		
	4.40	-5.24	-0.003024		
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		
3.85	-30	-2.35	-0.001250	Within authorized band for BAND II	Pass
	-20	-2.85	-0.001516		
	-10	-1.95	-0.001037		
	0	-1.77	-0.000941		
	10	-1.82	-0.000968		
	20	-2.37	-0.001261		
	30	-2.80	-0.001489		
	40	0.36	0.000191		
	50	-1.50	-0.000798		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.63	-0.002463	Within authorized band for BAND II	Pass
	3.85	-4.61	-0.002452		
	4.40	-3.50	-0.001862		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

## 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

