

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	23.29	18.69	33.01	PASS
Band2	TestMode	9262	23.26	18.66	33.01	PASS
Band2	TestMode	9400	23.68	19.08	33.01	PASS
Band2	Voice	9400	23.60	19.00	33.01	PASS
Band2	Voice	9538	23.46	18.86	33.01	PASS
Band2	TestMode	9538	23.60	19.00	33.01	PASS
Band4	TestMode	1312	23.66	19.06	30.00	PASS
Band4	Voice	1312	23.58	18.98	30.00	PASS
Band4	TestMode	1413	23.59	18.99	30.00	PASS
Band4	Voice	1413	23.52	18.92	30.00	PASS
Band4	TestMode	1513	23.92	19.32	30.00	PASS
Band4	Voice	1513	23.85	19.25	30.00	PASS
Band5	TestMode	4132	24.53	17.88	38.45	PASS
Band5	Voice	4132	24.46	17.81	38.45	PASS
Band5	Voice	4183	24.58	17.93	38.45	PASS
Band5	TestMode	4183	24.64	17.99	38.45	PASS
Band5	Voice	4233	24.70	18.05	38.45	PASS
Band5	TestMode	4233	24.79	18.14	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.27	17.67	33.01	PASS
Band2	9262	2	21.70	17.10	33.01	PASS
Band2	9262	3	21.70	17.10	33.01	PASS
Band2	9262	4	21.71	17.11	33.01	PASS
Band2	9400	1	22.70	18.10	33.01	PASS
Band2	9400	2	22.08	17.48	33.01	PASS
Band2	9400	3	22.14	17.54	33.01	PASS
Band2	9400	4	22.09	17.49	33.01	PASS
Band2	9538	1	22.64	18.04	33.01	PASS
Band2	9538	2	22.03	17.43	33.01	PASS
Band2	9538	3	22.07	17.47	33.01	PASS
Band2	9538	4	22.10	17.50	33.01	PASS

Band4	1312	1	22.74	18.14	30.00	PASS
Band4	1312	2	22.16	17.56	30.00	PASS
Band4	1312	3	22.17	17.57	30.00	PASS
Band4	1312	4	22.16	17.56	30.00	PASS
Band4	1413	1	22.61	18.01	30.00	PASS
Band4	1413	2	22.04	17.44	30.00	PASS
Band4	1413	3	22.04	17.44	30.00	PASS
Band4	1413	4	21.97	17.37	30.00	PASS
Band4	1513	1	22.97	18.37	30.00	PASS
Band4	1513	2	22.40	17.80	30.00	PASS
Band4	1513	3	22.38	17.78	30.00	PASS
Band4	1513	4	22.34	17.74	30.00	PASS
Band5	4132	1	23.53	16.88	38.5	PASS
Band5	4132	2	22.98	16.33	38.5	PASS
Band5	4132	3	23.04	16.39	38.5	PASS
Band5	4132	4	22.98	16.33	38.5	PASS
Band5	4183	1	23.65	17	38.5	PASS
Band5	4183	2	23.10	16.45	38.5	PASS
Band5	4183	3	23.10	16.45	38.5	PASS
Band5	4183	4	23.06	16.41	38.5	PASS
Band5	4233	1	23.77	17.12	38.5	PASS
Band5	4233	2	23.22	16.57	38.5	PASS
Band5	4233	3	23.20	16.55	38.5	PASS
Band5	4233	4	23.19	16.54	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.22	16.62	33.01	PASS
Band2	9262	2	21.74	17.14	33.01	PASS
Band2	9262	3	22.26	17.66	33.01	PASS
Band2	9262	4	21.26	16.66	33.01	PASS
Band2	9262	5	23.25	18.65	33.01	PASS
Band2	9400	1	21.60	17.00	33.01	PASS
Band2	9400	2	22.10	17.50	33.01	PASS
Band2	9400	3	22.64	18.04	33.01	PASS
Band2	9400	4	21.66	17.06	33.01	PASS
Band2	9400	5	23.60	19.00	33.01	PASS
Band2	9538	1	21.62	17.02	33.01	PASS
Band2	9538	2	22.09	17.49	33.01	PASS
Band2	9538	3	22.60	18.00	33.01	PASS

Band2	9538	4	21.60	17.00	33.01	PASS
Band2	9538	5	23.65	19.05	33.01	PASS
Band4	1312	1	21.68	17.08	30.00	PASS
Band4	1312	2	22.18	17.58	30.00	PASS
Band4	1312	3	22.69	18.09	30.00	PASS
Band4	1312	4	21.72	17.12	30.00	PASS
Band4	1312	5	23.70	19.10	30.00	PASS
Band4	1413	1	21.59	16.99	30.00	PASS
Band4	1413	2	22.06	17.46	30.00	PASS
Band4	1413	3	22.61	18.01	30.00	PASS
Band4	1413	4	21.60	17.00	30.00	PASS
Band4	1413	5	23.60	19.00	30.00	PASS
Band4	1513	1	21.93	17.33	30.00	PASS
Band4	1513	2	22.45	17.85	30.00	PASS
Band4	1513	3	22.96	18.36	30.00	PASS
Band4	1513	4	21.96	17.36	30.00	PASS
Band4	1513	5	23.95	19.35	30.00	PASS
Band5	4132	1	21.55	14.9	38.5	PASS
Band5	4132	2	22.04	15.39	38.5	PASS
Band5	4132	3	22.55	15.9	38.5	PASS
Band5	4132	4	21.56	14.91	38.5	PASS
Band5	4132	5	23.54	16.89	38.5	PASS
Band5	4183	1	21.66	15.01	38.5	PASS
Band5	4183	2	22.14	15.49	38.5	PASS
Band5	4183	3	22.69	16.04	38.5	PASS
Band5	4183	4	21.68	15.03	38.5	PASS
Band5	4183	5	23.64	16.99	38.5	PASS
Band5	4233	1	21.78	15.13	38.5	PASS
Band5	4233	2	22.31	15.66	38.5	PASS
Band5	4233	3	22.82	16.17	38.5	PASS
Band5	4233	4	21.83	15.18	38.5	PASS
Band5	4233	5	23.75	17.1	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)

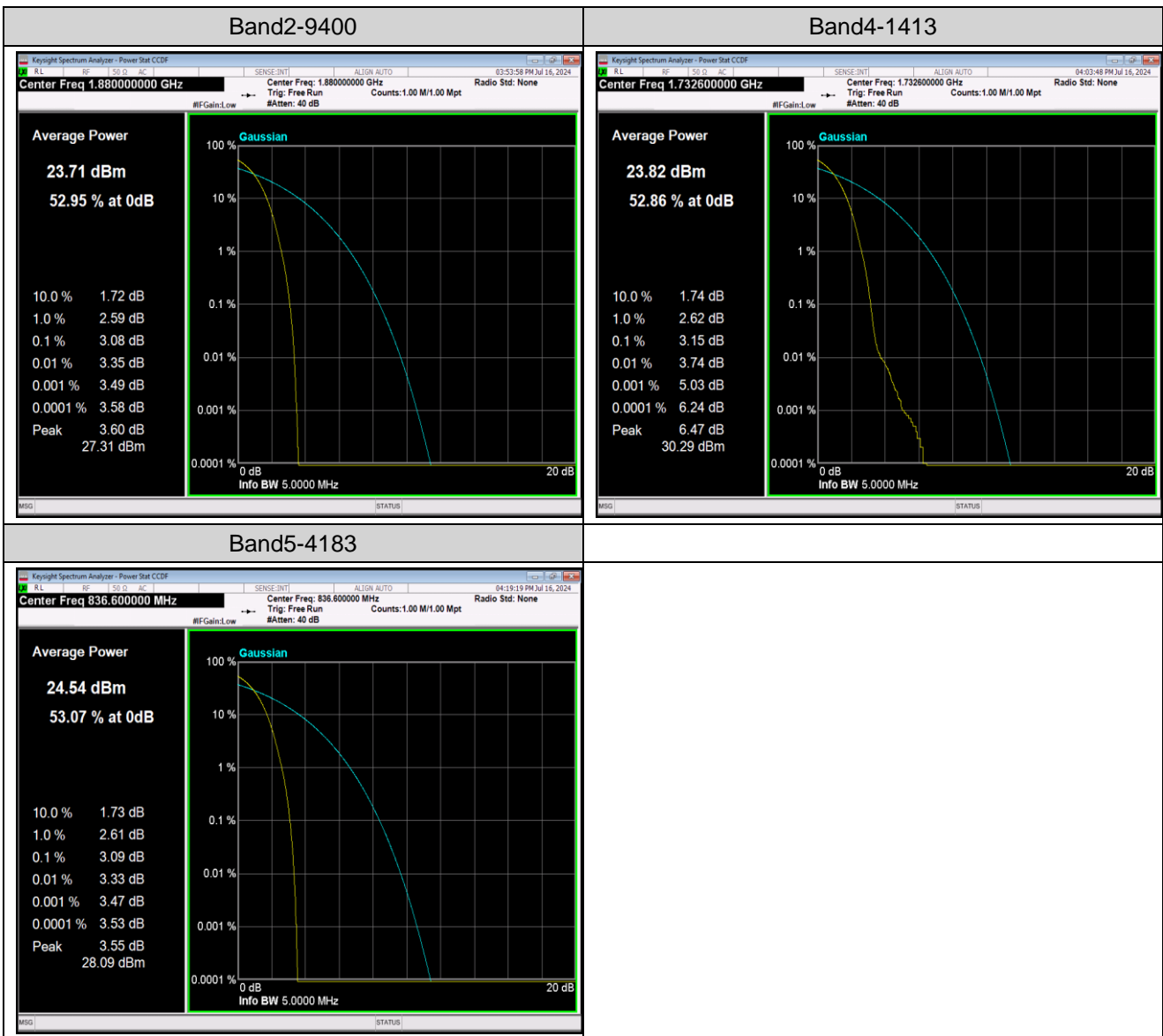
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.08	13	PASS
Band4	1413	3.15	13	PASS
Band5	4183	3.09	13	PASS

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

Test Graphs(WCDMA)

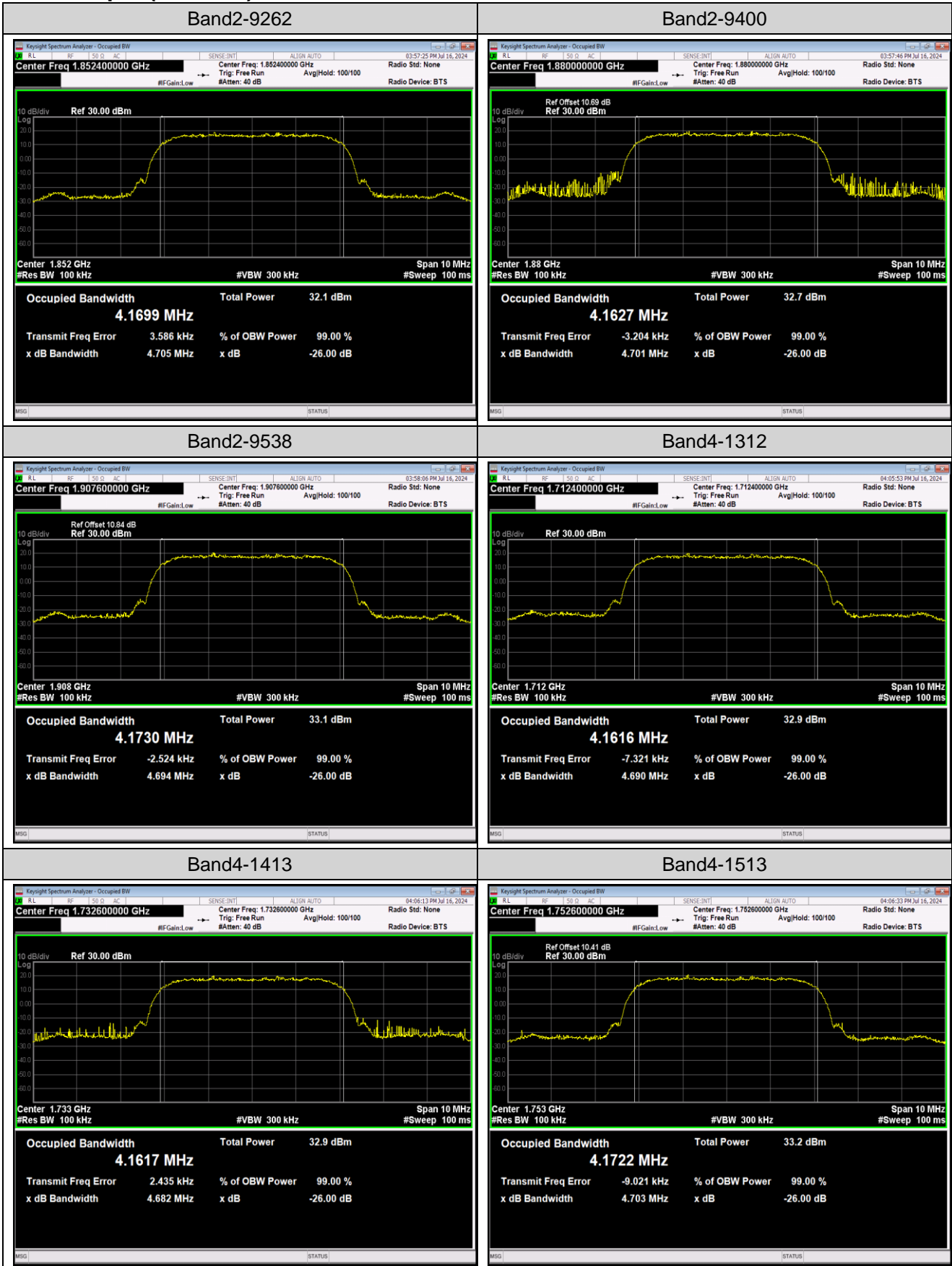


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1699	4.705	---	PASS
Band2	9400	4.1627	4.701	---	PASS
Band2	9538	4.1730	4.694	---	PASS
Band4	1312	4.1616	4.690	---	PASS
Band4	1413	4.1617	4.682	---	PASS
Band4	1513	4.1722	4.703	---	PASS
Band5	4132	4.1568	4.709	---	PASS
Band5	4183	4.1622	4.697	---	PASS
Band5	4233	4.1629	4.710	---	PASS

Test Graphs(WCDMA)



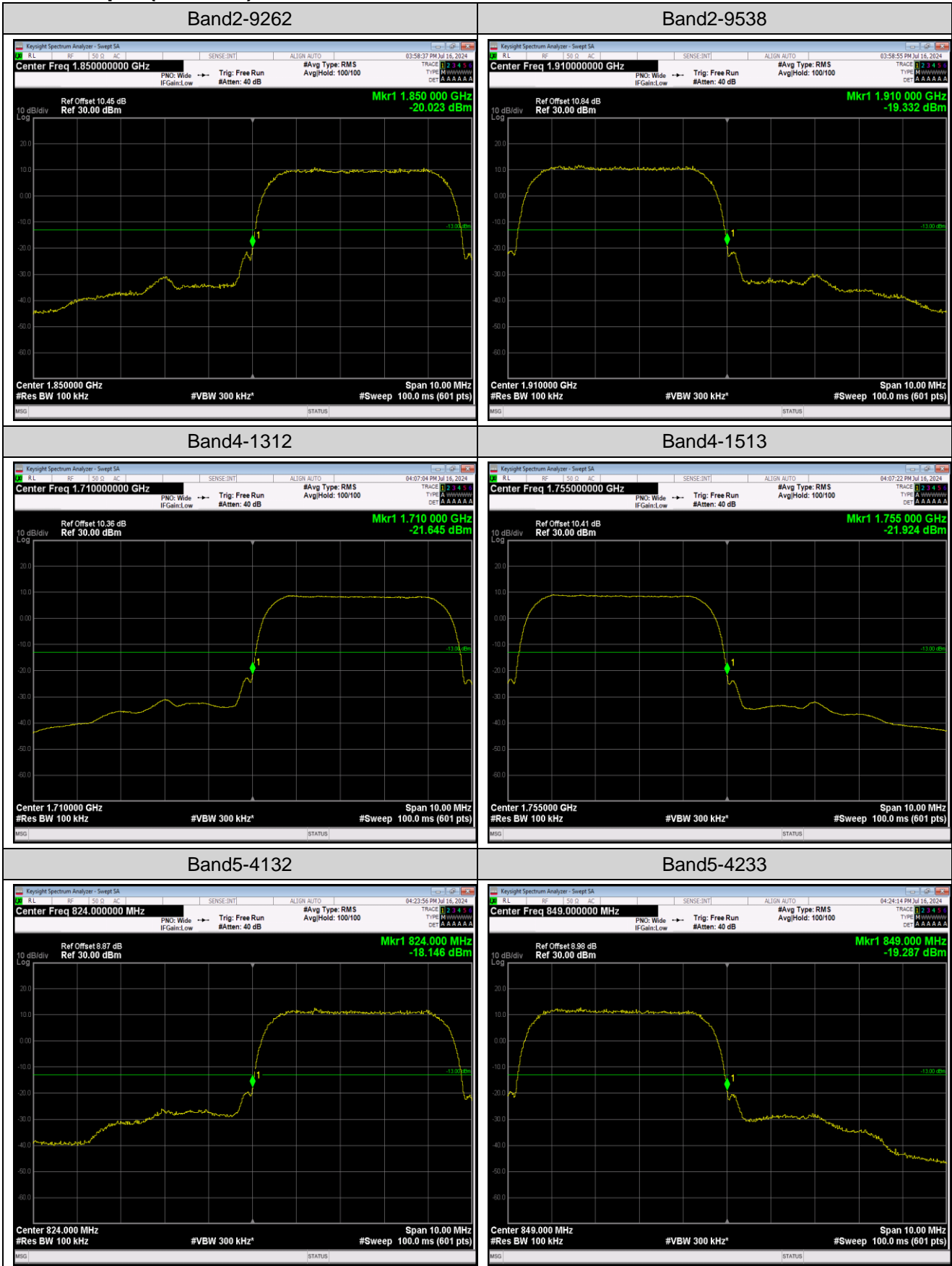


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.02	-13	PASS
Band2	9538	1910.00	-19.33	-13	PASS
Band4	1312	1710.00	-21.64	-13	PASS
Band4	1513	1755.00	-21.92	-13	PASS
Band5	4132	824.00	-18.15	-13	PASS
Band5	4233	849.00	-19.29	-13	PASS

Test Graphs(WCDMA)



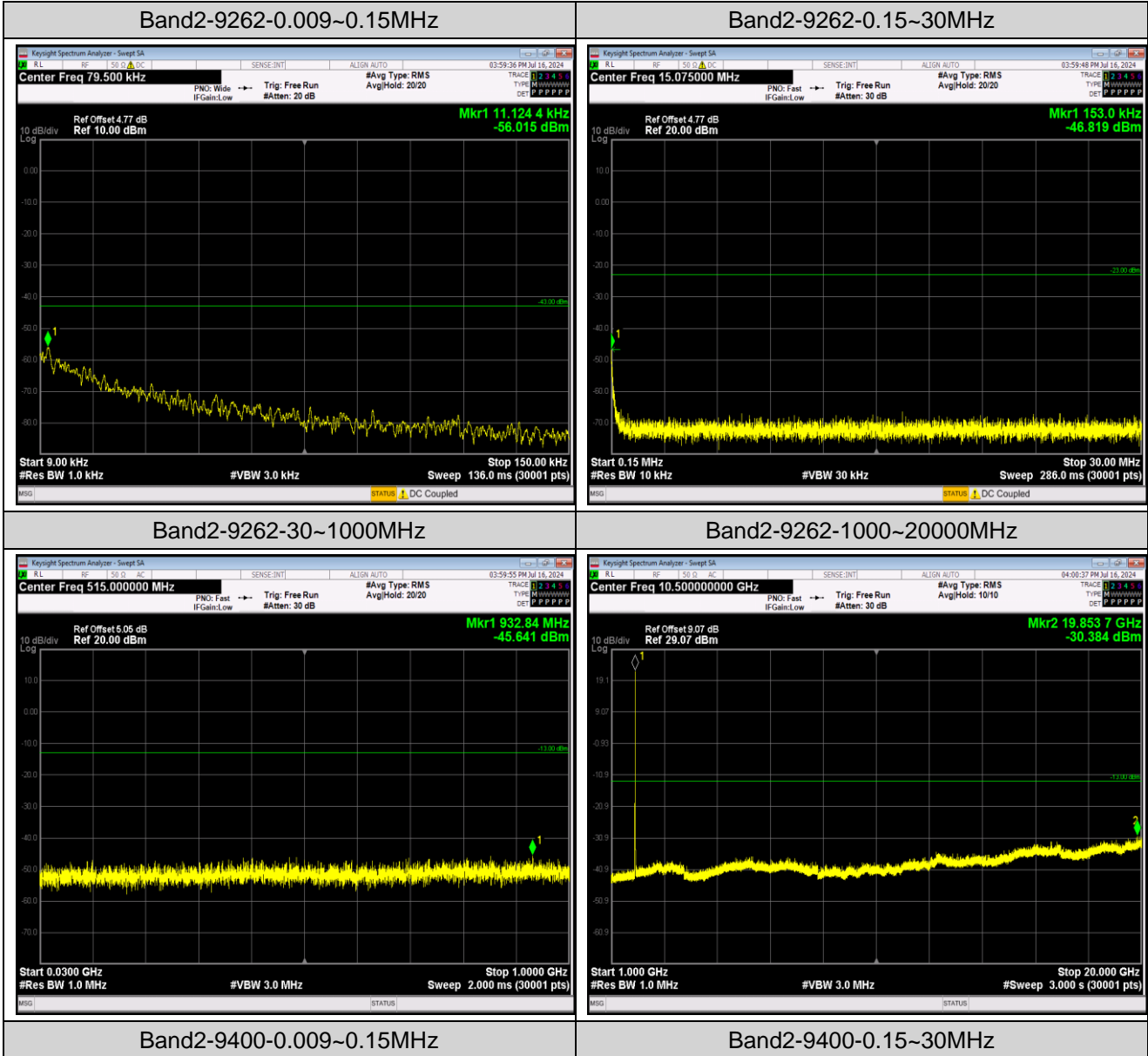
Appendix E: Conducted Spurious Emission

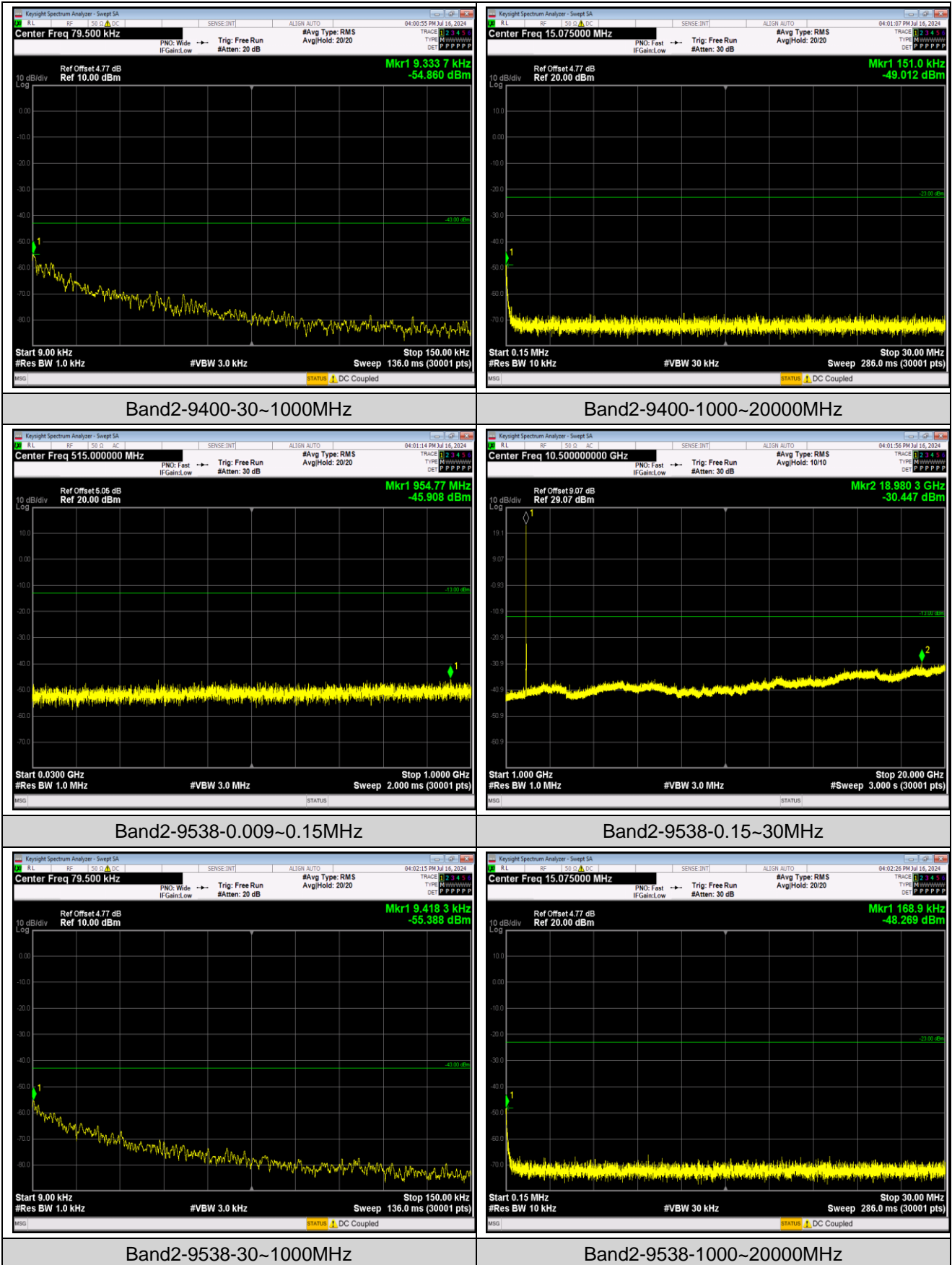
Test Result (WCDMA)

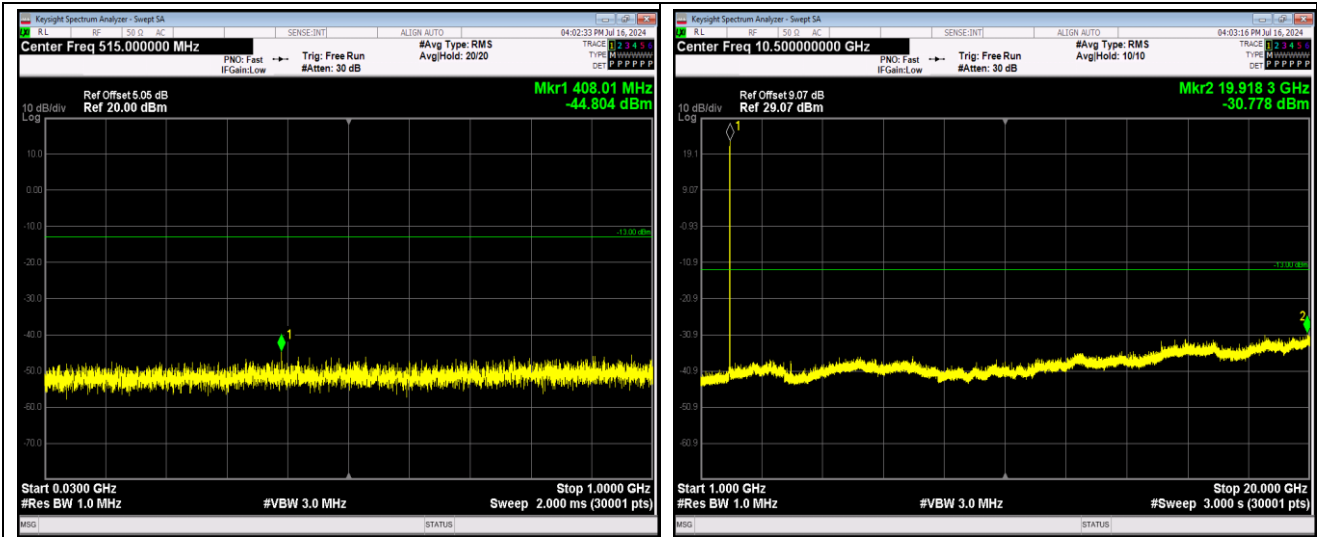
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.02	-43	PASS
Band2	9262	0.15~30MHz	0.15	-46.82	-23	PASS
Band2	9262	30~1000MHz	932.84	-45.64	-13	PASS
Band2	9262	1000~20000MHz	19853.7	-30.38	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-54.86	-43	PASS
Band2	9400	0.15~30MHz	0.15	-49.01	-23	PASS
Band2	9400	30~1000MHz	954.77	-45.91	-13	PASS
Band2	9400	1000~20000MHz	18980.33	-30.45	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.39	-43	PASS
Band2	9538	0.15~30MHz	0.17	-48.27	-23	PASS
Band2	9538	30~1000MHz	408.01	-44.8	-13	PASS
Band2	9538	1000~20000MHz	19918.3	-30.78	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-55.65	-43	PASS
Band4	1312	0.15~30MHz	0.16	-48.88	-23	PASS
Band4	1312	30~1000MHz	642.91	-46.17	-13	PASS
Band4	1312	1000~20000MHz	19918.3	-29.68	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.47	-43	PASS
Band4	1413	0.15~30MHz	0.15	-47.68	-23	PASS
Band4	1413	30~1000MHz	781.62	-45.69	-13	PASS
Band4	1413	1000~20000MHz	19391.37	-30.7	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-54.98	-43	PASS
Band4	1513	0.15~30MHz	0.15	-49.44	-23	PASS
Band4	1513	30~1000MHz	516.42	-45.48	-13	PASS
Band4	1513	1000~20000MHz	19953.13	-30.32	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.52	-33	PASS
Band5	4132	0.15~30MHz	0.15	-45.06	-13	PASS
Band5	4132	30~1000MHz	528.48	-54.67	-13	PASS
Band5	4132	1000~10000MHz	5918.8	-35.48	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.3	-33	PASS
Band5	4183	0.15~30MHz	0.16	-47.7	-13	PASS
Band5	4183	30~1000MHz	668.13	-53.74	-13	PASS
Band5	4183	1000~10000MHz	6029.5	-36.27	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.94	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.03	-13	PASS
Band5	4233	30~1000MHz	440.5	-54.42	-13	PASS

Band5	4233	1000~10000MHz	5576.5	-36.38	-13	PASS
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Test Graphs(WCDMA)

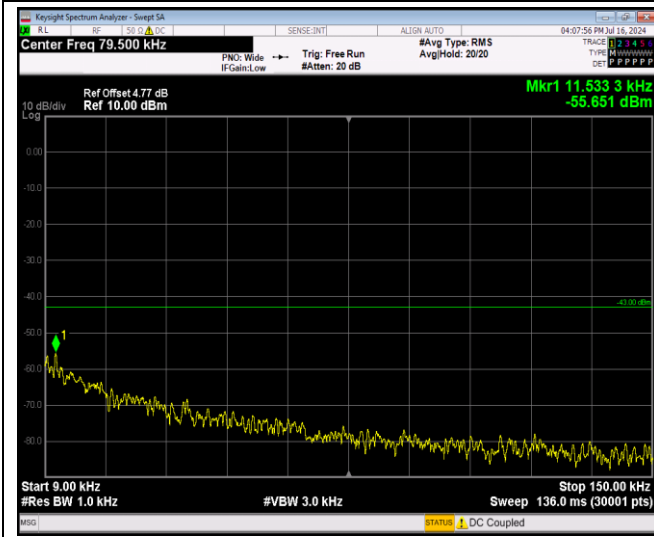




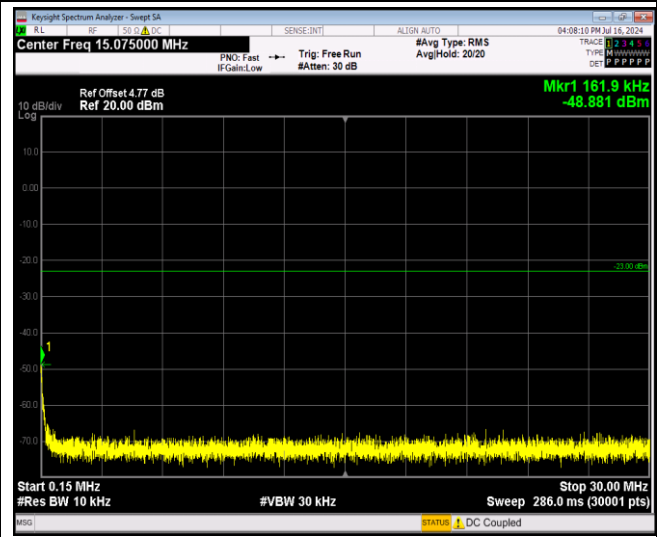


Band4-1312-0.009~0.15MHz

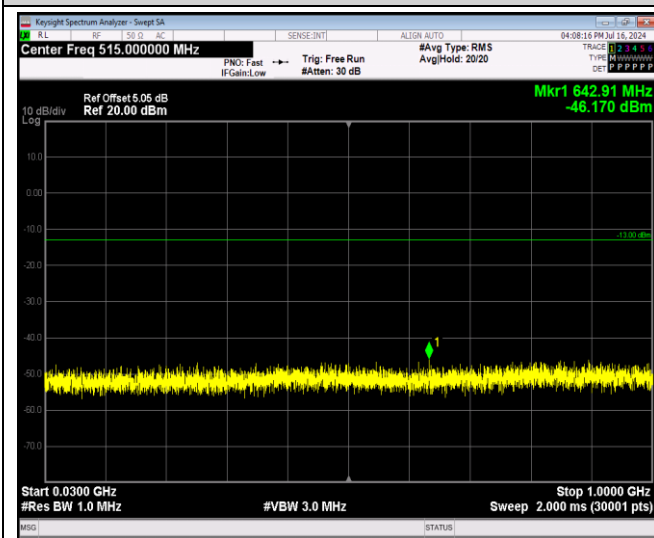
Band4-1312-0.15~30MHz



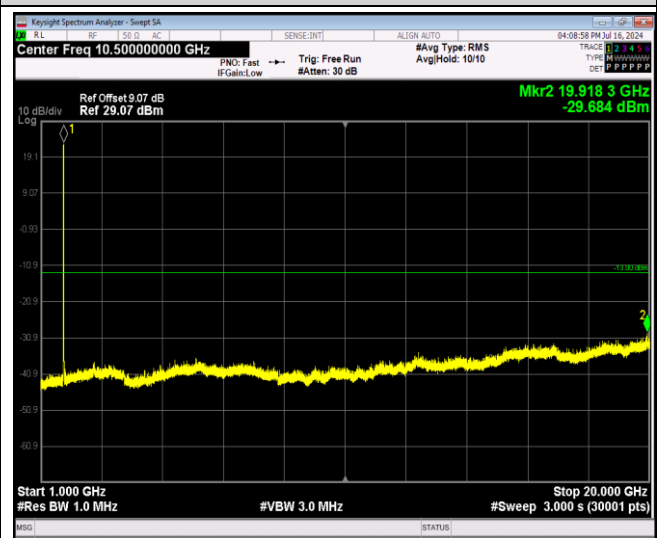
Band4-1312-30~1000MHz



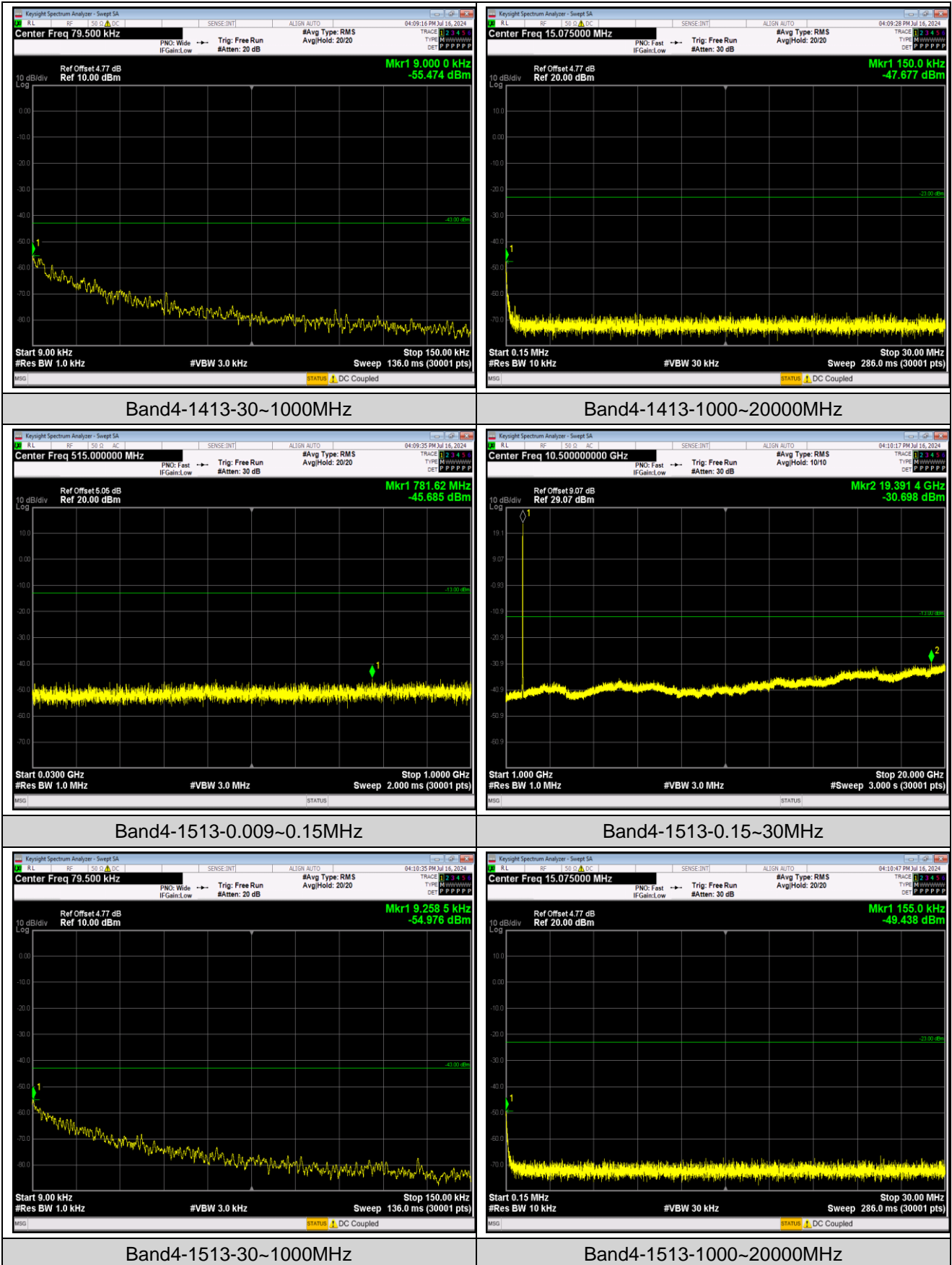
Band4-1312-1000~20000MHz

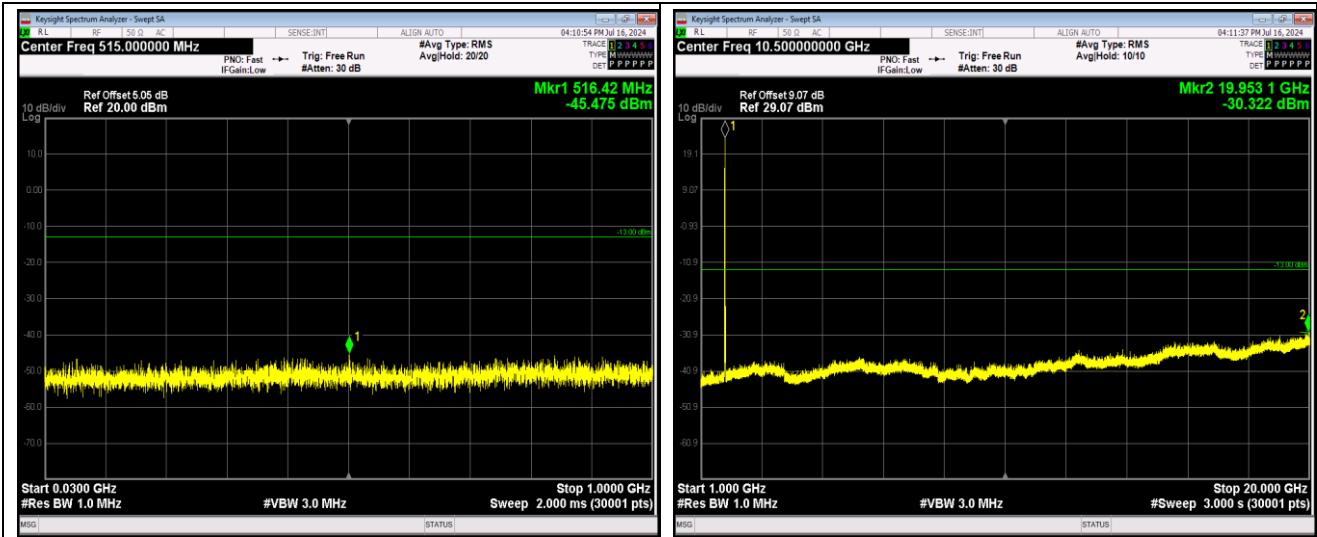


Band4-1413-0.009~0.15MHz



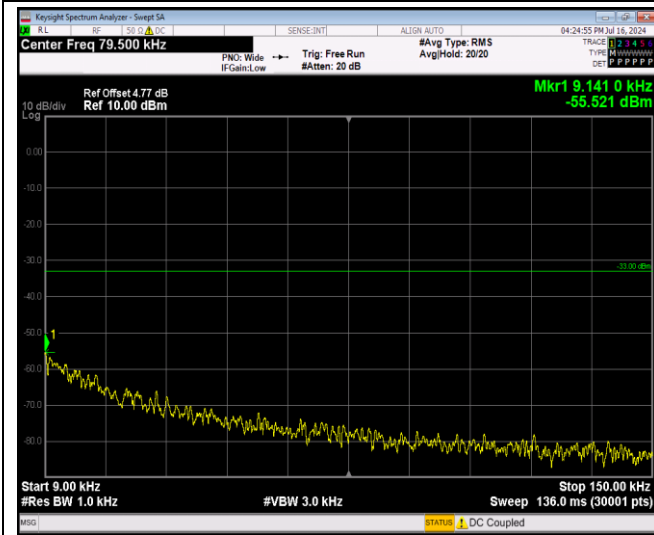
Band4-1413-0.15~30MHz



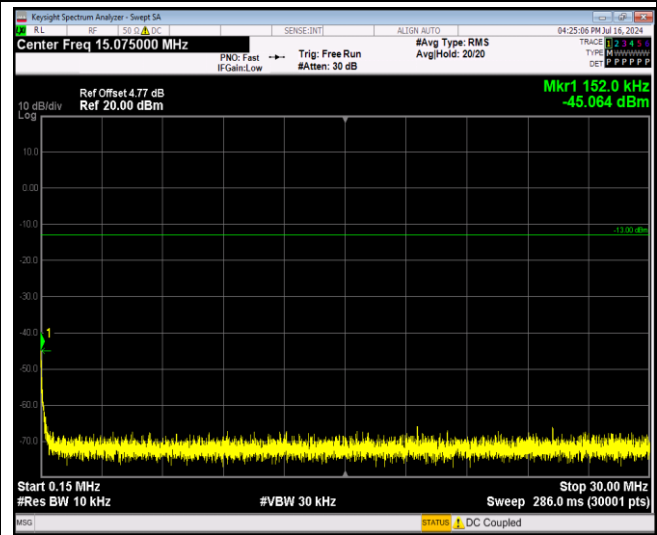


Band5-4132-0.009~0.15MHz

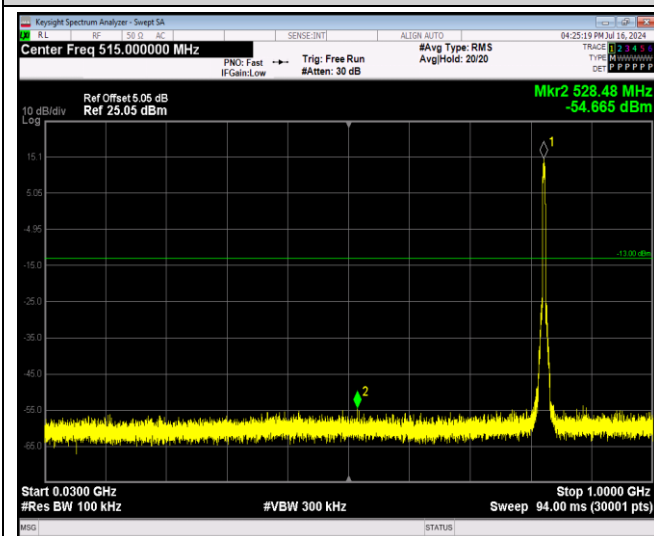
Band5-4132-0.15~30MHz



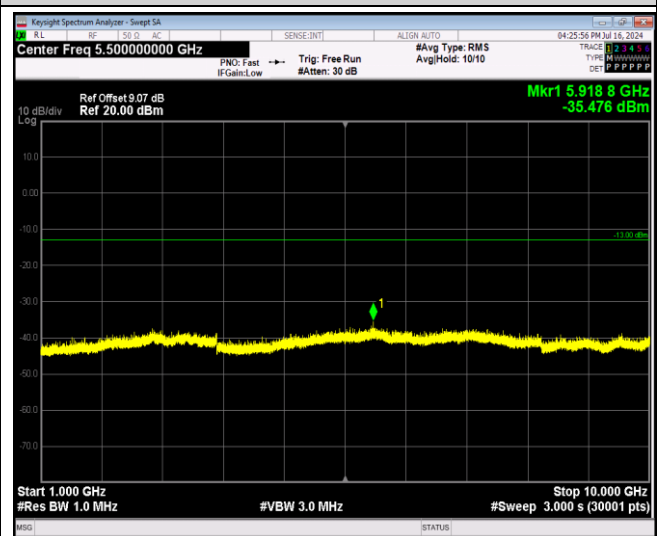
Band5-4132-30~1000MHz



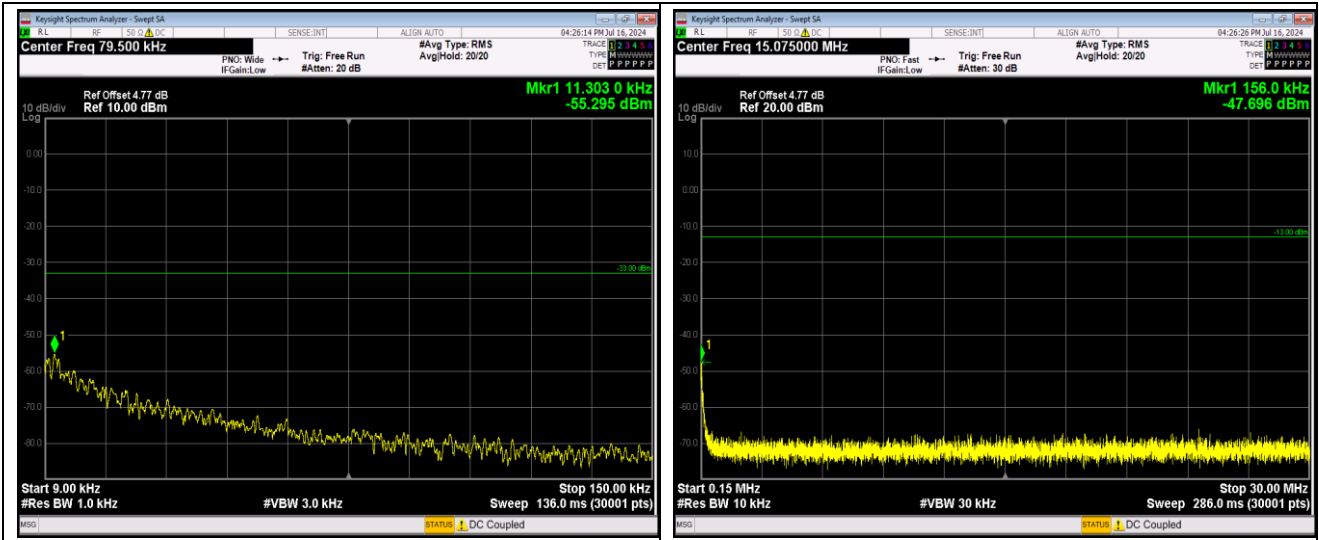
Band5-4132-1000~10000MHz



Band5-4183-0.009~0.15MHz

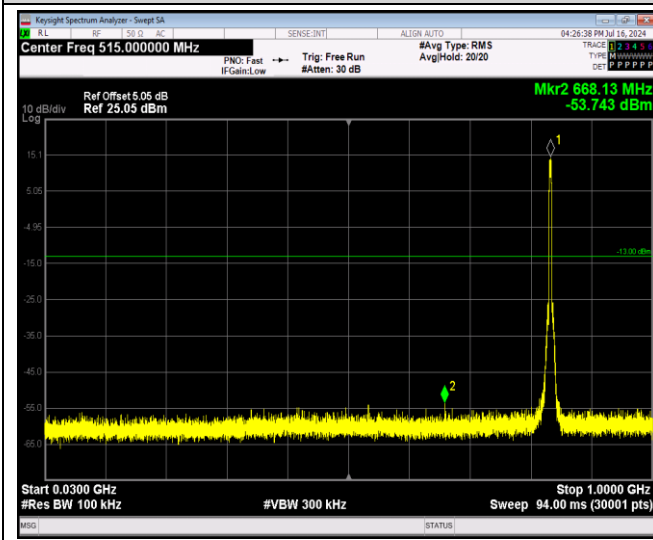


Band5-4183-0.15~30MHz

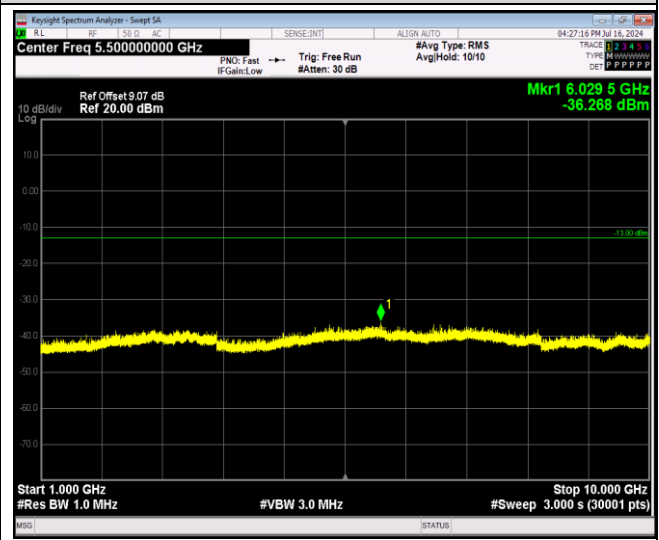


Band5-4183-30~1000MHz

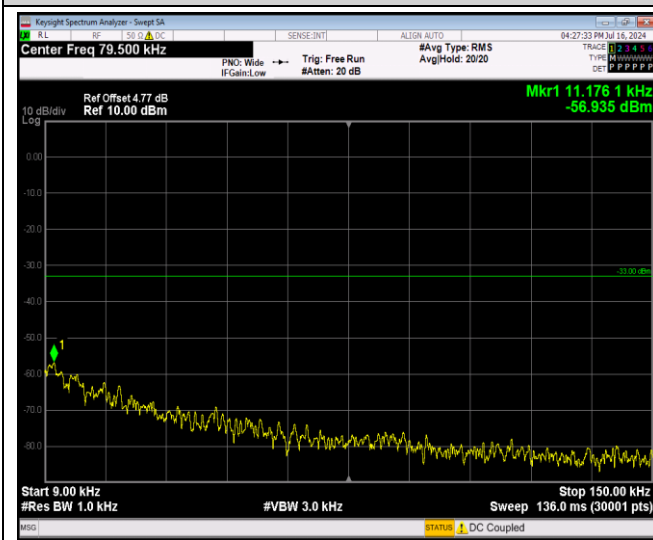
Band5-4183-1000~10000MHz



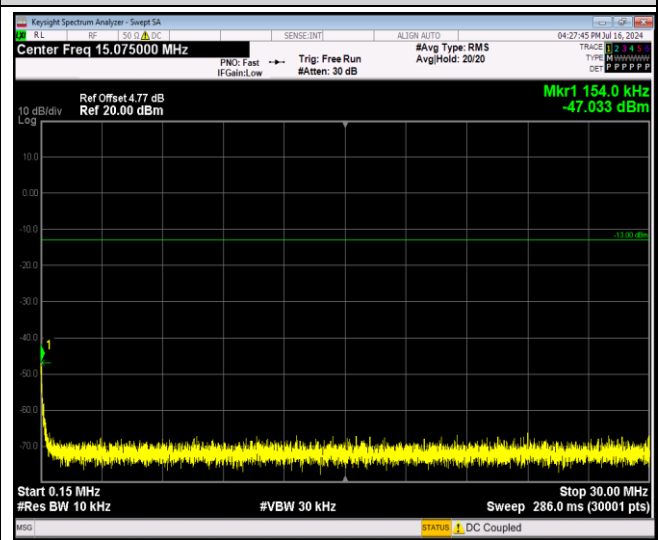
Band5-4233-0.009~0.15MHz



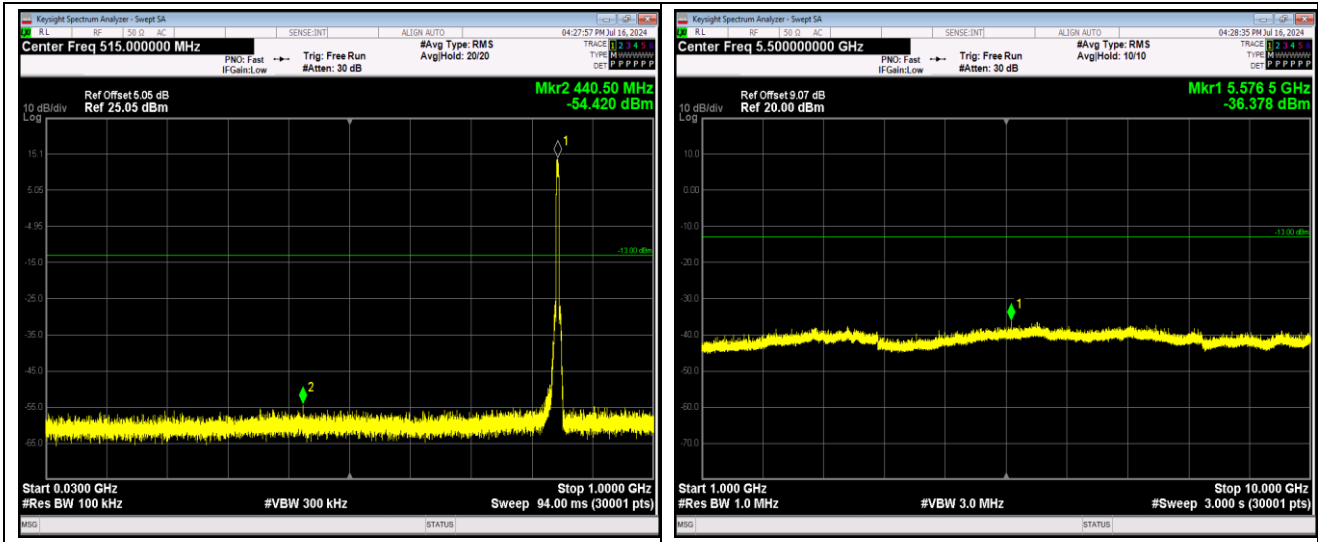
Band5-4233-0.15~30MHz



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	-11.68	-0.013961	±2.5	Pass
	-20	-12.09	-0.014451		
	-10	-10.78	-0.012885		
	0	-11.33	-0.013543		
	10	-8.66	-0.010351		
	20	-10.92	-0.013053		
	30	-11.33	-0.013543		
	40	-10.60	-0.012670		
50	-8.92	-0.010662			
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-11.91	-0.014236	±2.5	Pass
	3.87	-13.43	-0.016053		
	4.45	-11.89	-0.014212		
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	-12.95	-0.007474	Within authorized band for BAND IV	Pass
	-20	-11.91	-0.006874		
	-10	-9.84	-0.005679		
	0	-14.90	-0.008600		
	10	-14.93	-0.008617		
	20	-13.25	-0.007647		
	30	-14.05	-0.008109		
	40	-12.67	-0.007313		
	50	-11.94	-0.006891		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-14.65	-0.008456	Within authorized band for BAND IV	Pass
	3.87	-12.52	-0.007226		
	4.45	-14.20	-0.008196		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

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	-14.80	-0.007872	Within authorized band for BAND II	Pass
	-20	-14.58	-0.007755		
	-10	-13.25	-0.007048		
	0	-13.60	-0.007234		
	10	-12.42	-0.006606		
	20	-13.26	-0.007053		
	30	-13.67	-0.007271		
	40	-14.41	-0.007665		
	50	-13.49	-0.007176		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-16.30	-0.008670	Within authorized band for BAND II	Pass
	3.87	-17.42	-0.009266		
	4.45	-15.08	-0.008021		
<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

