

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	23.40	21.1	33.01	PASS
Band2	TestMode	9262	23.48	21.18	33.01	PASS
Band2	TestMode	9400	23.53	21.23	33.01	PASS
Band2	Voice	9400	23.56	21.26	33.01	PASS
Band2	TestMode	9538	23.61	21.31	33.01	PASS
Band2	Voice	9538	23.45	21.15	33.01	PASS
Band4	Voice	1312	23.20	20.6	30.00	PASS
Band4	TestMode	1312	23.40	20.8	30.00	PASS
Band4	Voice	1413	23.49	20.89	30.00	PASS
Band4	TestMode	1413	23.58	20.98	30.00	PASS
Band4	TestMode	1513	23.60	21	30.00	PASS
Band4	Voice	1513	23.42	20.82	30.00	PASS
Band5	Voice	4132	24.08	12.53	38.45	PASS
Band5	TestMode	4132	24.07	12.52	38.45	PASS
Band5	TestMode	4183	24.21	12.66	38.45	PASS
Band5	Voice	4183	24.27	12.72	38.45	PASS
Band5	Voice	4233	24.22	12.67	38.45	PASS
Band5	TestMode	4233	24.15	12.6	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.03	20.73	33.01	PASS
Band2	9262	2	22.75	20.45	33.01	PASS
Band2	9262	3	22.55	20.25	33.01	PASS
Band2	9262	4	22.61	20.31	33.01	PASS
Band2	9400	1	23.10	20.8	33.01	PASS
Band2	9400	2	22.82	20.52	33.01	PASS
Band2	9400	3	22.65	20.35	33.01	PASS
Band2	9400	4	22.74	20.44	33.01	PASS
Band2	9538	1	23.21	20.91	33.01	PASS
Band2	9538	2	22.86	20.56	33.01	PASS
Band2	9538	3	22.70	20.4	33.01	PASS
Band2	9538	4	22.79	20.49	33.01	PASS

Band4	1312	1	22.96	20.36	30.00	PASS
Band4	1312	2	23.05	20.45	30.00	PASS
Band4	1312	3	23.02	20.42	30.00	PASS
Band4	1312	4	23.02	20.42	30.00	PASS
Band4	1413	1	23.01	20.41	30.00	PASS
Band4	1413	2	23.15	20.55	30.00	PASS
Band4	1413	3	23.14	20.54	30.00	PASS
Band4	1413	4	23.16	20.56	30.00	PASS
Band4	1513	1	22.90	20.3	30.00	PASS
Band4	1513	2	22.91	20.31	30.00	PASS
Band4	1513	3	22.89	20.29	30.00	PASS
Band4	1513	4	22.91	20.31	30.00	PASS
Band5	4132	1	23.12	11.57	38.5	PASS
Band5	4132	2	23.10	11.55	38.5	PASS
Band5	4132	3	22.77	11.22	38.5	PASS
Band5	4132	4	22.77	11.22	38.5	PASS
Band5	4183	1	23.26	11.71	38.5	PASS
Band5	4183	2	23.19	11.64	38.5	PASS
Band5	4183	3	22.84	11.29	38.5	PASS
Band5	4183	4	22.83	11.28	38.5	PASS
Band5	4233	1	23.53	11.98	38.5	PASS
Band5	4233	2	23.12	11.57	38.5	PASS
Band5	4233	3	22.73	11.18	38.5	PASS
Band5	4233	4	22.72	11.17	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.76	18.46	33.01	PASS
Band2	9262	2	21.45	19.15	33.01	PASS
Band2	9262	3	21.20	18.9	33.01	PASS
Band2	9262	4	21.51	19.21	33.01	PASS
Band2	9262	5	23.12	20.82	33.01	PASS
Band2	9400	1	21.22	18.92	33.01	PASS
Band2	9400	2	21.72	19.42	33.01	PASS
Band2	9400	3	21.47	19.17	33.01	PASS
Band2	9400	4	21.81	19.51	33.01	PASS
Band2	9400	5	23.21	20.91	33.01	PASS
Band2	9538	1	21.08	18.78	33.01	PASS
Band2	9538	2	21.59	19.29	33.01	PASS
Band2	9538	3	21.10	18.8	33.01	PASS

Band2	9538	4	21.66	19.36	33.01	PASS
Band2	9538	5	23.23	20.93	33.01	PASS
Band4	1312	1	22.89	20.29	30.00	PASS
Band4	1312	2	22.92	20.32	30.00	PASS
Band4	1312	3	22.73	20.13	30.00	PASS
Band4	1312	4	23.01	20.41	30.00	PASS
Band4	1312	5	23.13	20.53	30.00	PASS
Band4	1413	1	23.07	20.47	30.00	PASS
Band4	1413	2	23.10	20.5	30.00	PASS
Band4	1413	3	22.87	20.27	30.00	PASS
Band4	1413	4	23.20	20.6	30.00	PASS
Band4	1413	5	23.18	20.58	30.00	PASS
Band4	1513	1	22.91	20.31	30.00	PASS
Band4	1513	2	22.87	20.27	30.00	PASS
Band4	1513	3	22.70	20.1	30.00	PASS
Band4	1513	4	22.94	20.34	30.00	PASS
Band4	1513	5	22.95	20.35	30.00	PASS
Band5	4132	1	21.37	9.82	38.5	PASS
Band5	4132	2	21.70	10.15	38.5	PASS
Band5	4132	3	21.45	9.9	38.5	PASS
Band5	4132	4	21.27	9.72	38.5	PASS
Band5	4132	5	23.60	12.05	38.5	PASS
Band5	4183	1	21.86	10.31	38.5	PASS
Band5	4183	2	21.90	10.35	38.5	PASS
Band5	4183	3	21.73	10.18	38.5	PASS
Band5	4183	4	21.52	9.97	38.5	PASS
Band5	4183	5	23.77	12.22	38.5	PASS
Band5	4233	1	21.54	9.99	38.5	PASS
Band5	4233	2	21.70	10.15	38.5	PASS
Band5	4233	3	21.46	9.91	38.5	PASS
Band5	4233	4	21.24	9.69	38.5	PASS
Band5	4233	5	23.79	12.24	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)

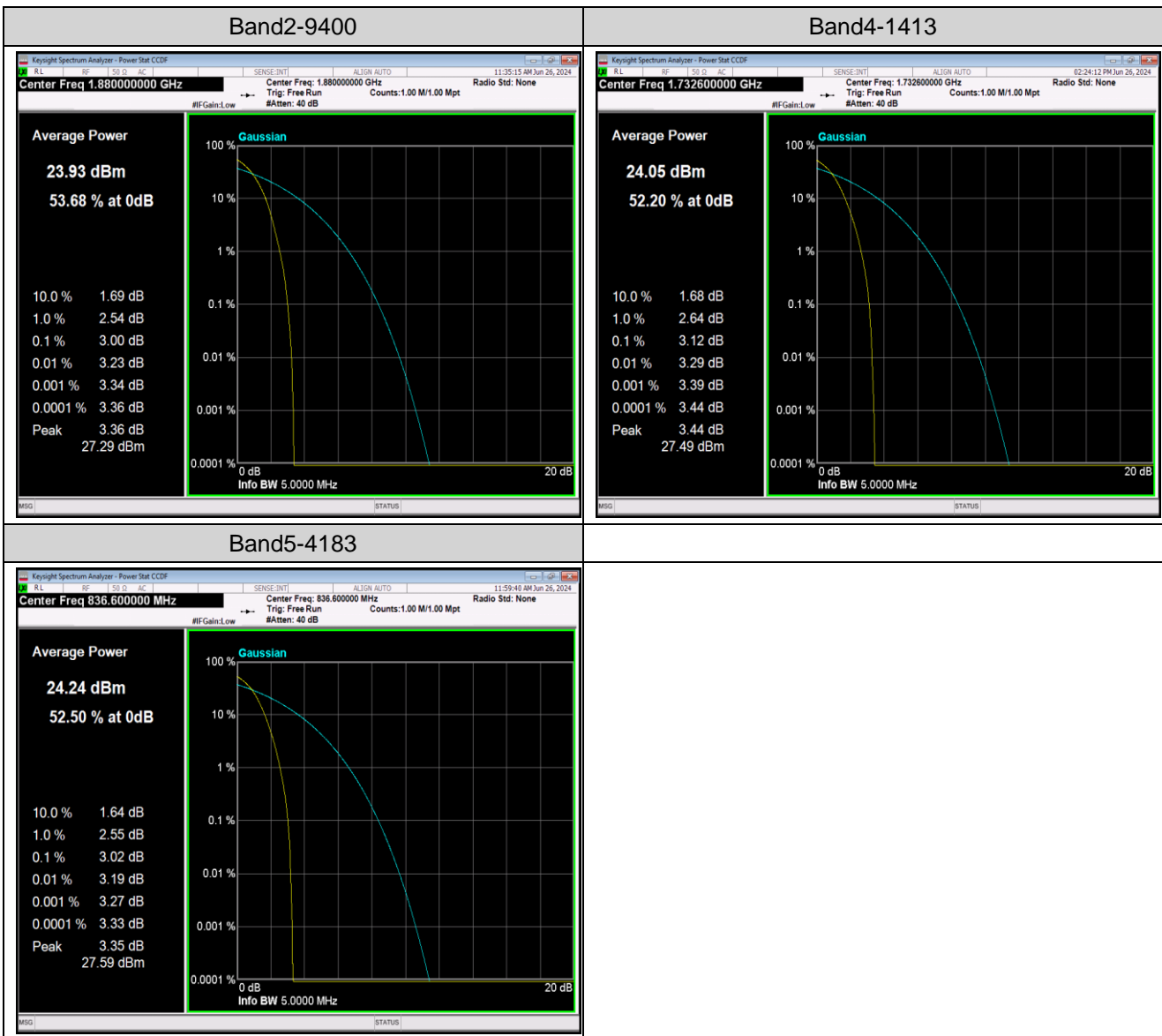
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3	13	PASS
Band4	1413	3.12	13	PASS
Band5	4183	3.02	13	PASS

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

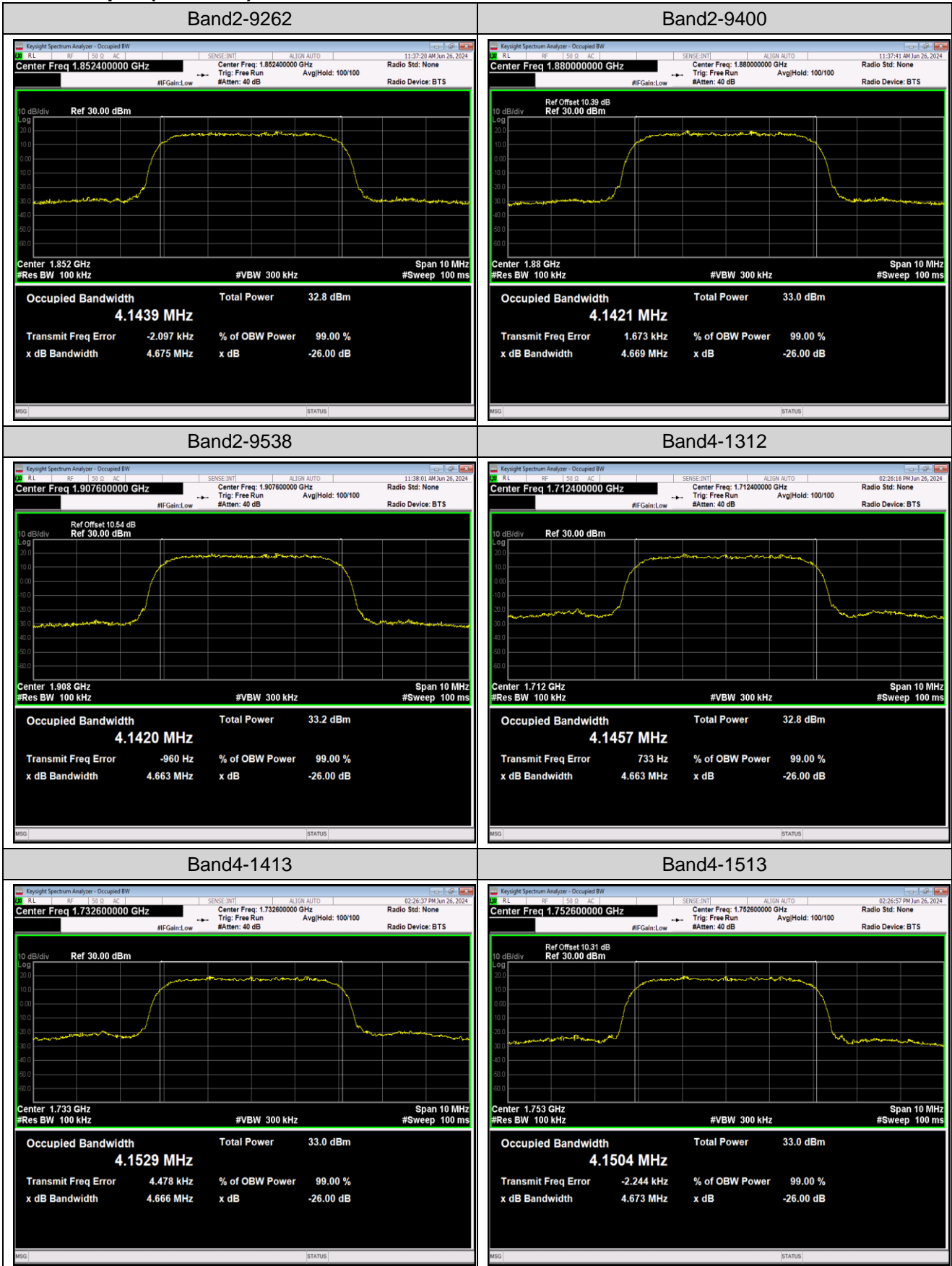
Test Graphs(WCDMA)



AppendixC:26dB Bandwidth andOccupied Bandwidth**Test Result(WCDMA)**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1439	4.675	---	PASS
Band2	9400	4.1421	4.669	---	PASS
Band2	9538	4.1420	4.663	---	PASS
Band4	1312	4.1457	4.663	---	PASS
Band4	1413	4.1529	4.666	---	PASS
Band4	1513	4.1504	4.673	---	PASS
Band5	4132	4.1461	4.668	---	PASS
Band5	4183	4.1472	4.662	---	PASS
Band5	4233	4.1532	4.659	---	PASS

Test Graphs(WCDMA)



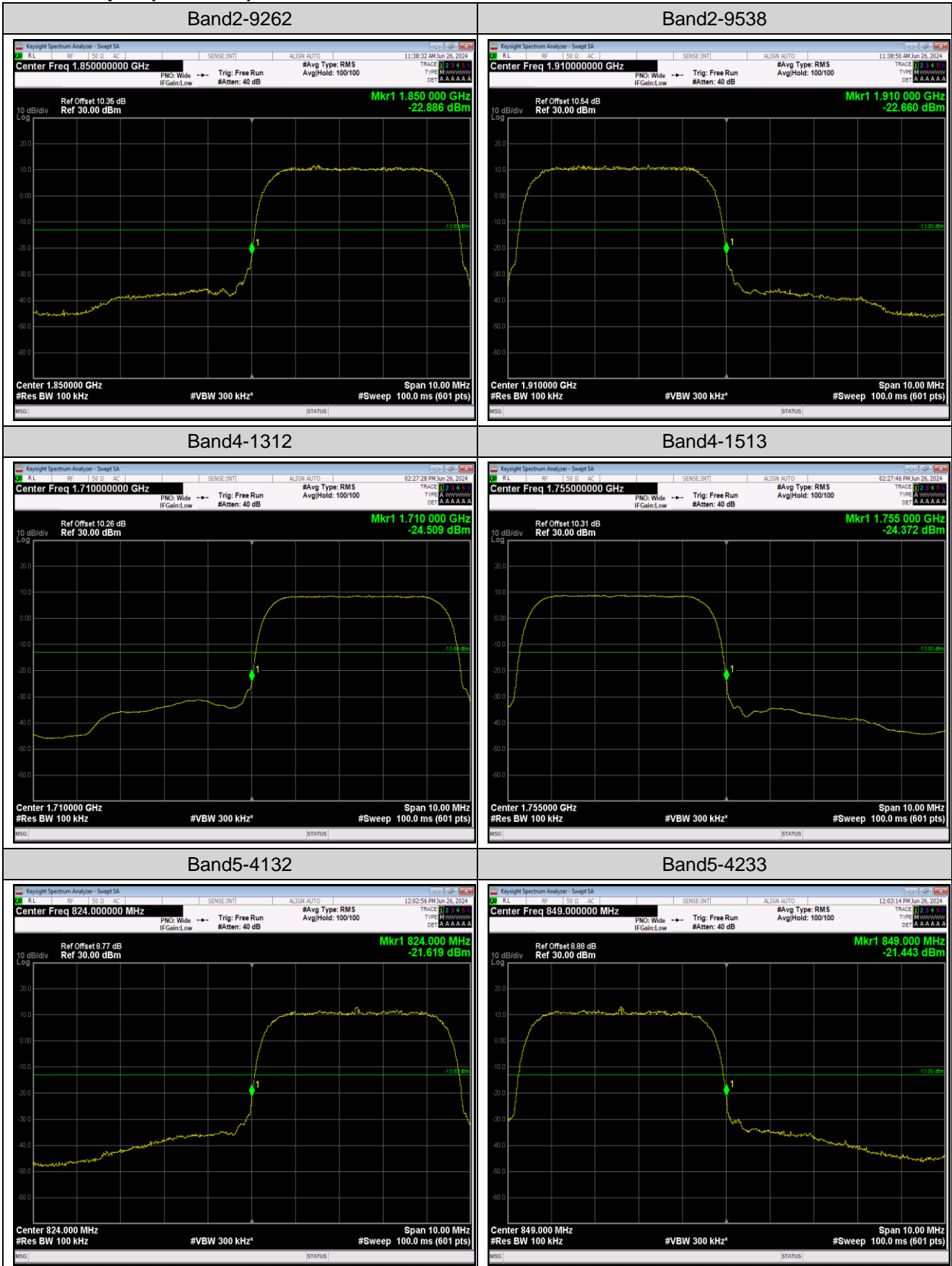


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.89	-13	PASS
Band2	9538	1910.00	-22.66	-13	PASS
Band4	1312	1710.00	-24.51	-13	PASS
Band4	1513	1755.00	-24.37	-13	PASS
Band5	4132	824.00	-21.62	-13	PASS
Band5	4233	849.00	-21.44	-13	PASS

Test Graphs(WCDMA)

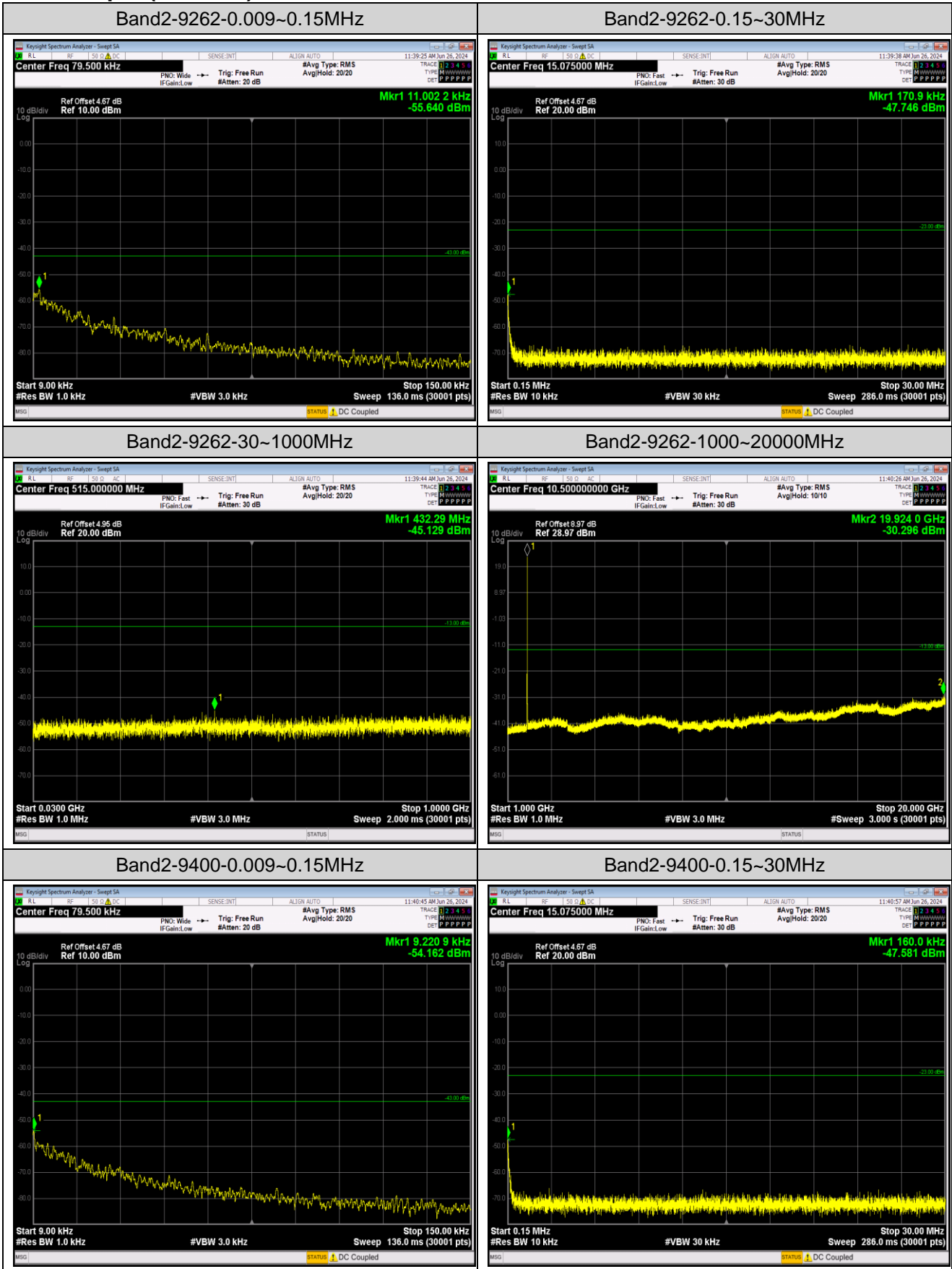


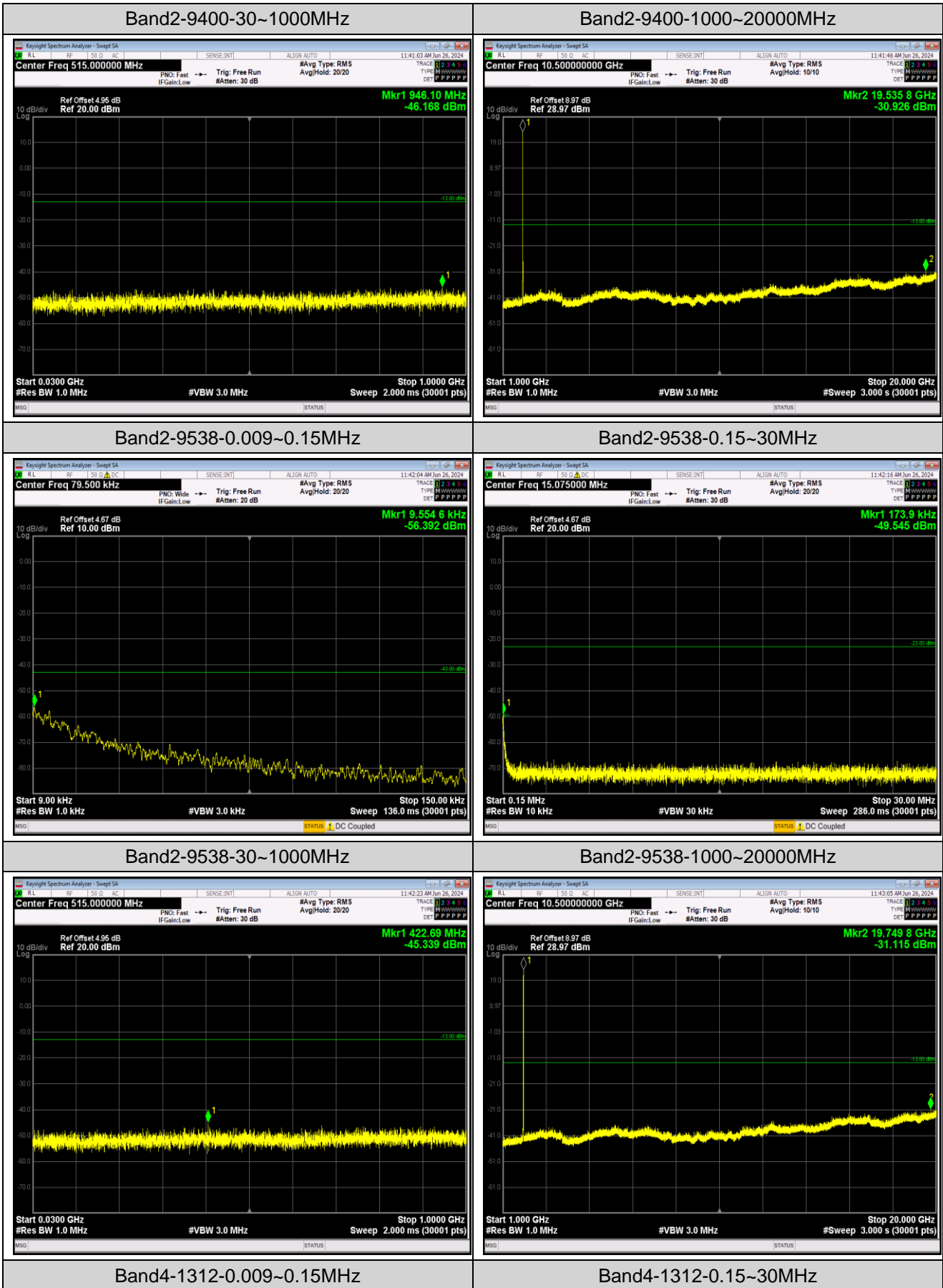
Appendix E: Conducted Spurious Emission

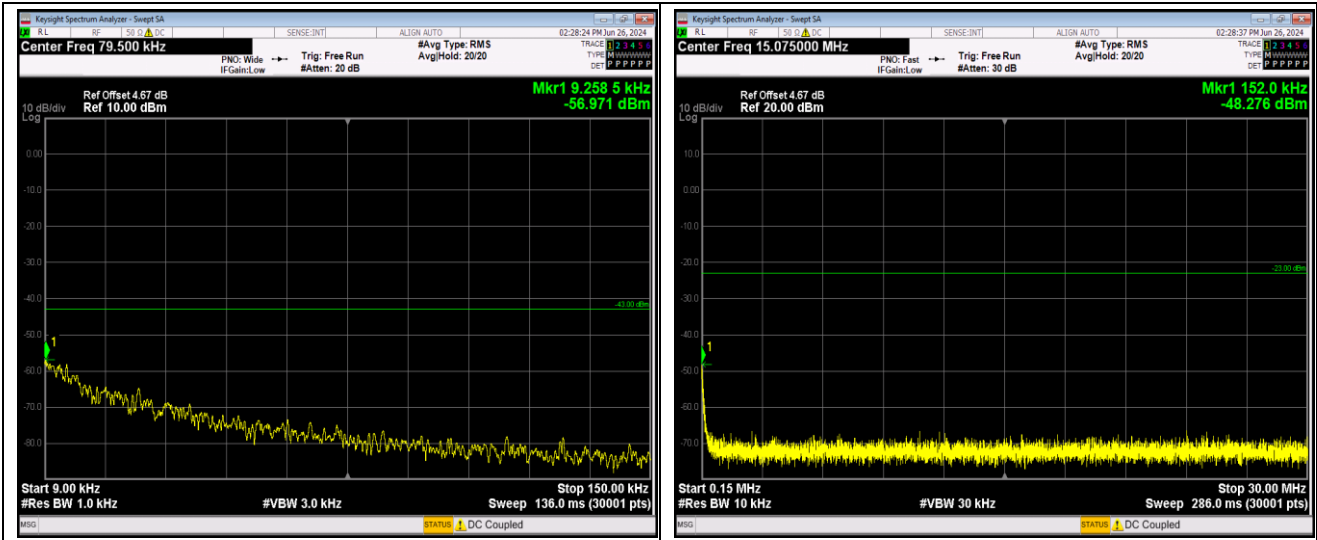
Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.64	-43	PASS
Band2	9262	0.15~30MHz	0.17	-47.75	-23	PASS
Band2	9262	30~1000MHz	432.29	-45.13	-13	PASS
Band2	9262	1000~20000MHz	19924	-30.3	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-54.16	-43	PASS
Band2	9400	0.15~30MHz	0.16	-47.58	-23	PASS
Band2	9400	30~1000MHz	946.1	-46.17	-13	PASS
Band2	9400	1000~20000MHz	19535.77	-30.93	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.39	-43	PASS
Band2	9538	0.15~30MHz	0.17	-49.55	-23	PASS
Band2	9538	30~1000MHz	422.69	-45.34	-13	PASS
Band2	9538	1000~20000MHz	19749.83	-31.12	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.97	-43	PASS
Band4	1312	0.15~30MHz	0.15	-48.28	-23	PASS
Band4	1312	30~1000MHz	875.03	-44.87	-13	PASS
Band4	1312	1000~20000MHz	19979.1	-29.73	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.13	-43	PASS
Band4	1413	0.15~30MHz	0.15	-47.77	-23	PASS
Band4	1413	30~1000MHz	920.56	-45.05	-13	PASS
Band4	1413	1000~20000MHz	19949.97	-30.51	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.77	-43	PASS
Band4	1513	0.15~30MHz	0.16	-47.07	-23	PASS
Band4	1513	30~1000MHz	733.86	-44.79	-13	PASS
Band4	1513	1000~20000MHz	19996.2	-30.63	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-56.75	-33	PASS
Band5	4132	0.15~30MHz	0.16	-47.05	-13	PASS
Band5	4132	30~1000MHz	950.3	-55.1	-13	PASS
Band5	4132	1000~10000MHz	5932	-36.77	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.72	-33	PASS
Band5	4183	0.15~30MHz	0.15	-48.06	-13	PASS
Band5	4183	30~1000MHz	963.11	-54.7	-13	PASS
Band5	4183	1000~10000MHz	5916.1	-36.9	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.08	-33	PASS
Band5	4233	0.15~30MHz	0.17	-47.85	-13	PASS
Band5	4233	30~1000MHz	378.49	-54.74	-13	PASS
Band5	4233	1000~10000MHz	5975.8	-37.08	-13	PASS

Test Graphs(WCDMA)

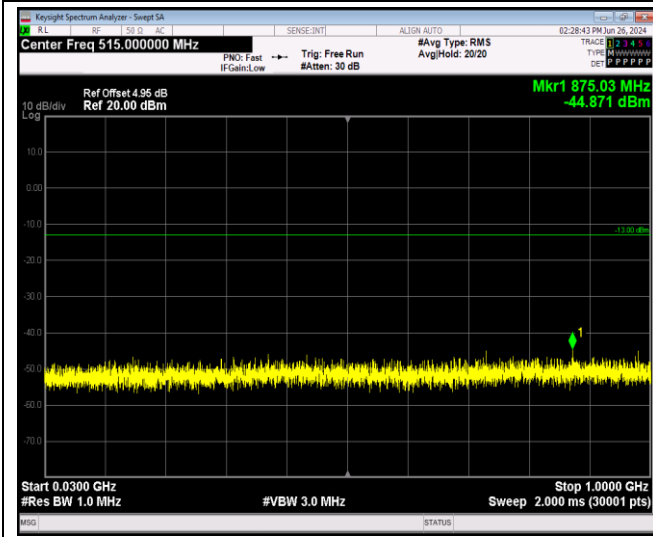




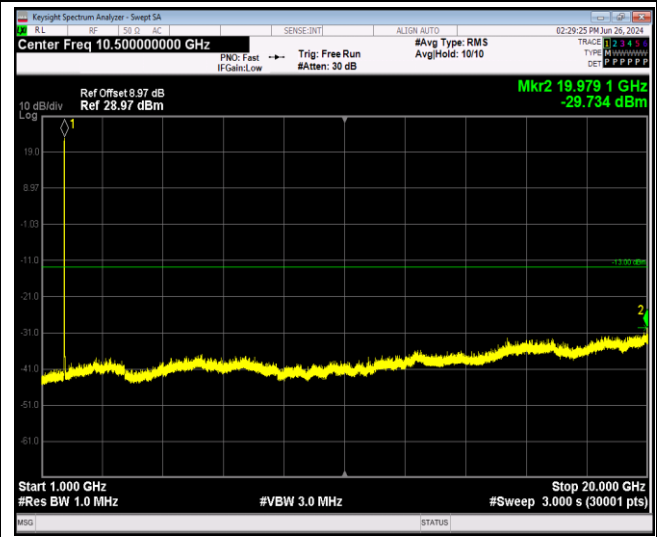


Band4-1312-30~1000MHz

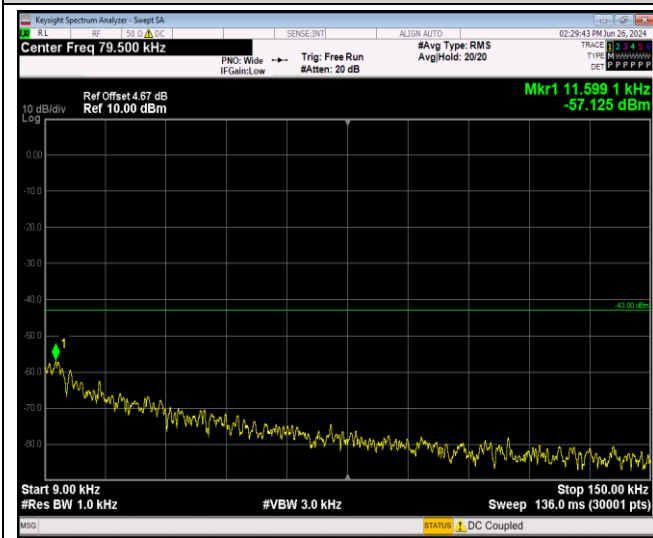
Band4-1312-1000~20000MHz



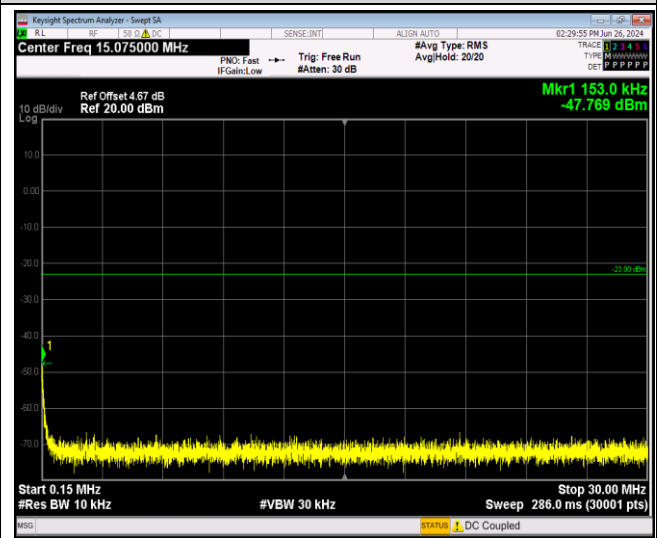
Band4-1413-0.009~0.15MHz



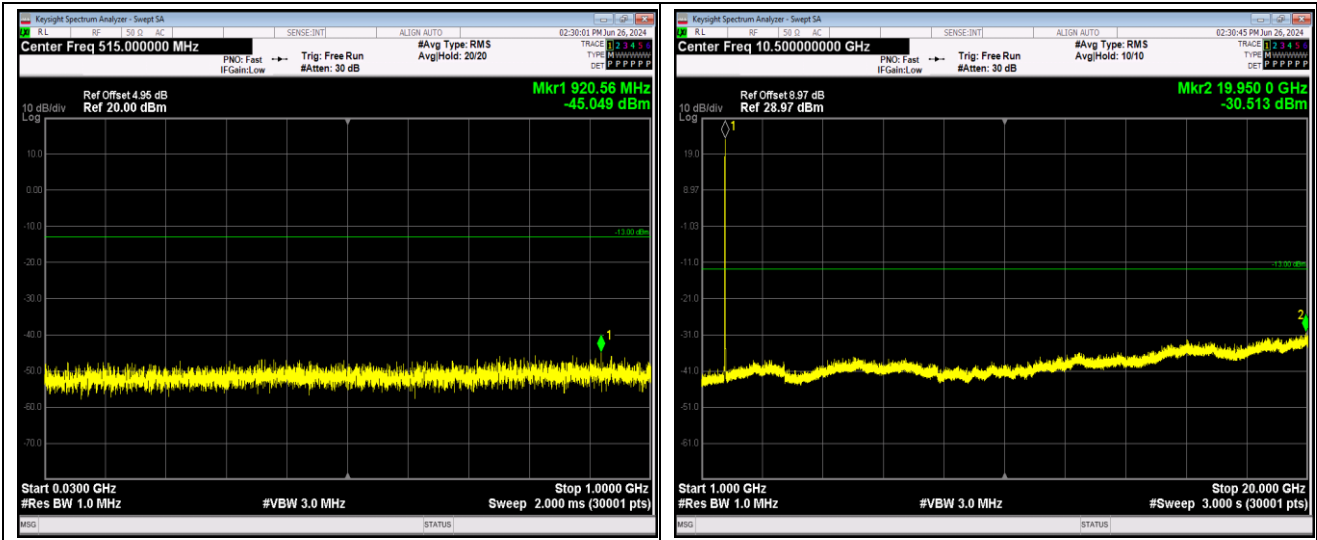
Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz

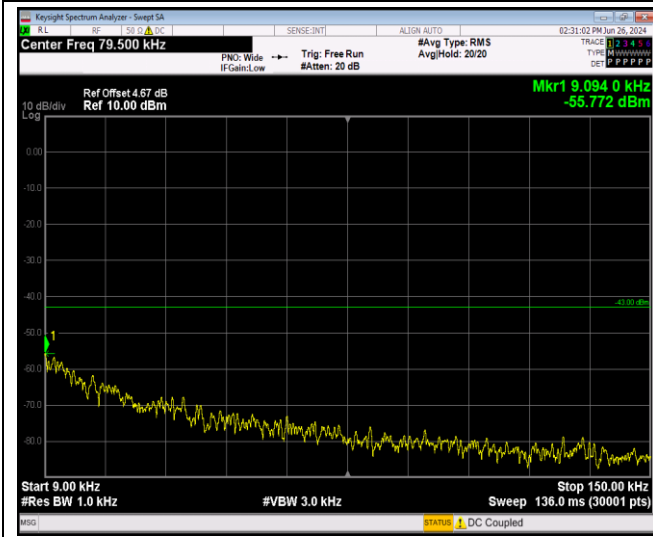


Band4-1413-1000~20000MHz



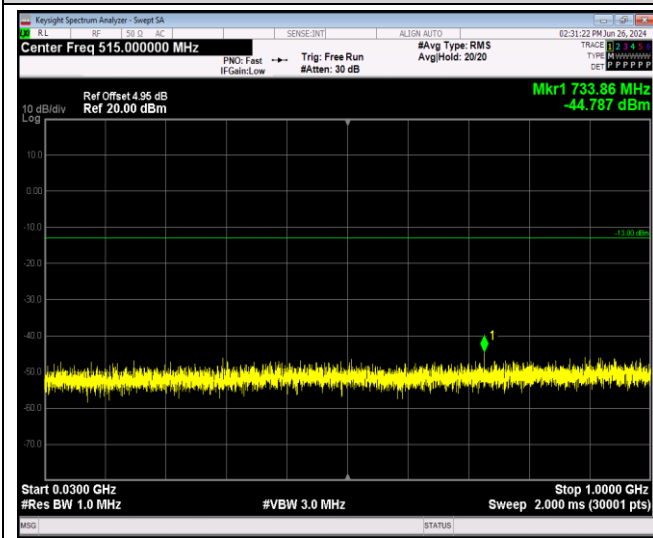
Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz



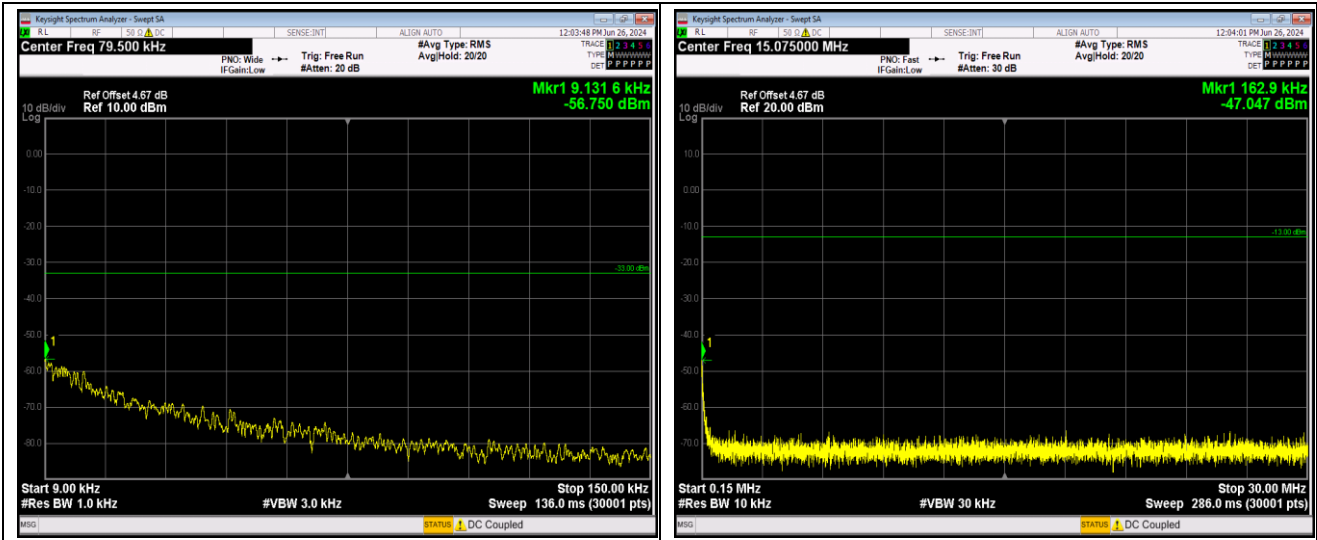
Band4-1513-30~1000MHz

Band4-1513-1000~20000MHz



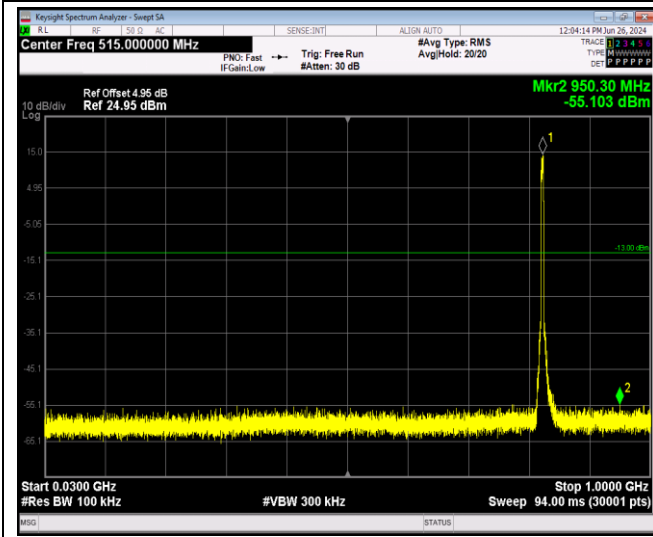
Band5-4132-0.009~0.15MHz

Band5-4132-0.15~30MHz

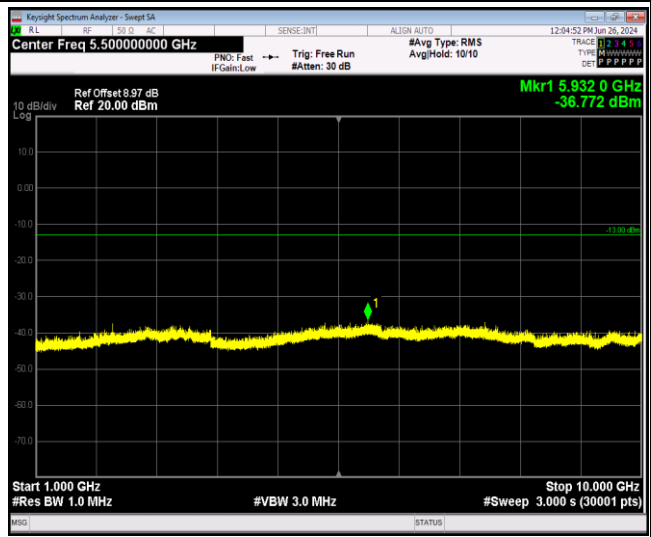


Band5-4132-30~1000MHz

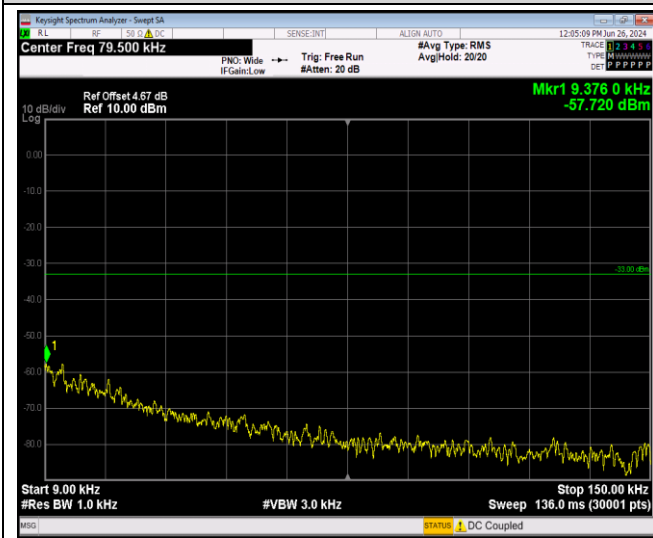
Band5-4132-1000~10000MHz



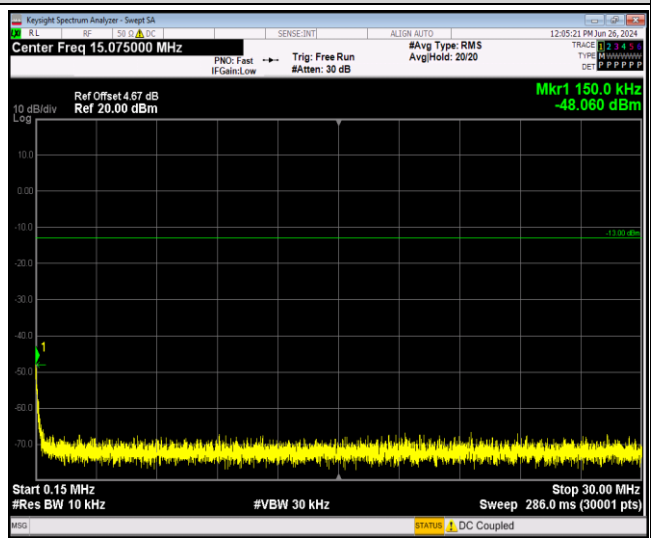
Band5-4183-0.009~0.15MHz



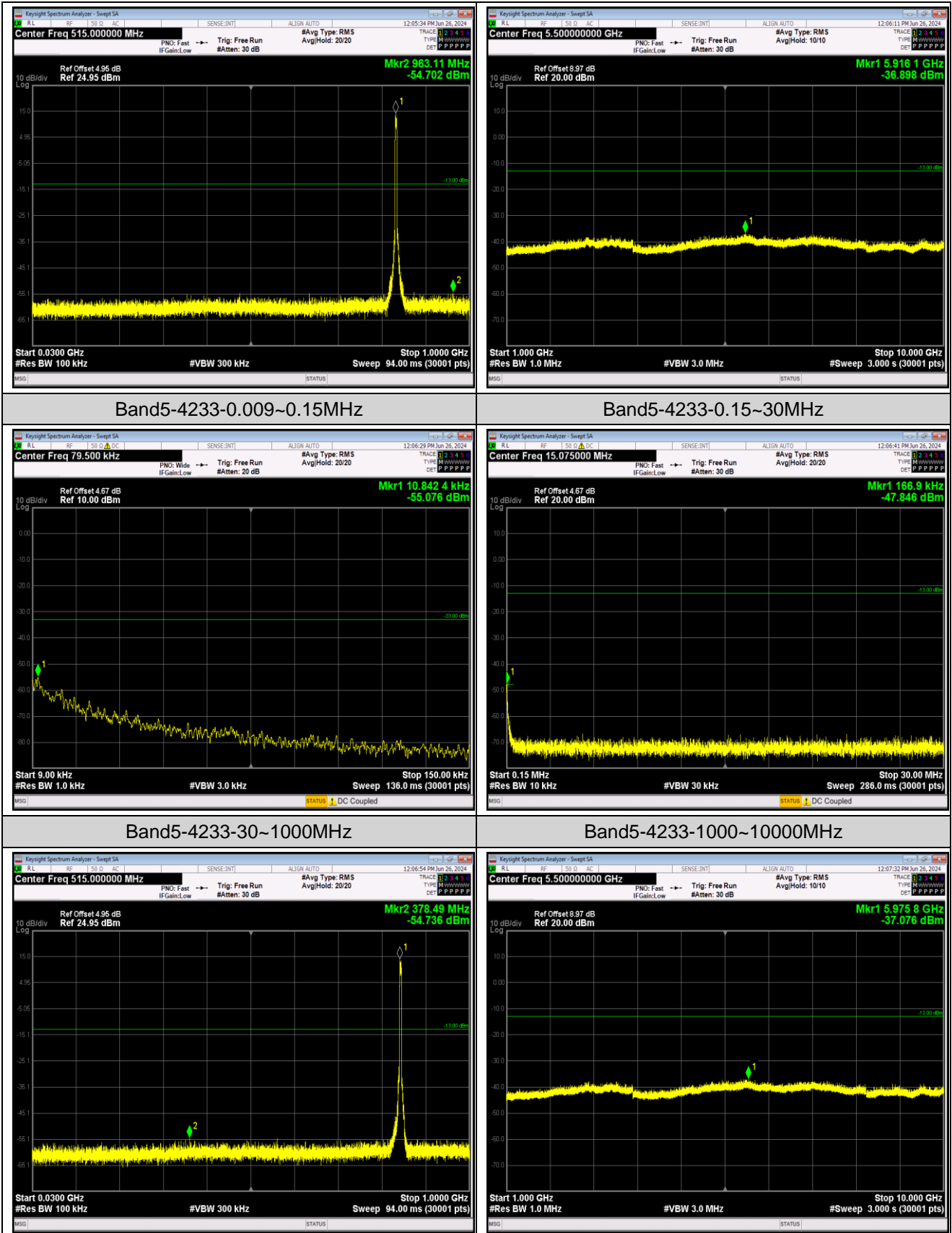
Band5-4183-0.15~30MHz



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		
3.85	-30	0.11	0.000131	±2.5	Pass
	-20	-0.64	-0.000765		
	-10	0.06	0.000072		
	0	-2.08	-0.002486		
	10	2.39	0.002857		
	20	-0.24	-0.000287		
	30	0.09	0.000108		
	40	-0.62	-0.000741		
	50	-0.32	-0.000383		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.80	0.000956	±2.5	Pass
	3.85	-0.51	-0.000610		
	4.40	0.72	0.000861		
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	0.69	0.000398	Within authorized band for BAND IV	Pass
	-20	2.62	0.001512		
	-10	-1.80	-0.001039		
	0	-4.52	-0.002609		
	10	-0.04	-0.000023		
	20	-1.62	-0.000935		
	30	-4.24	-0.002447		
	40	-4.40	-0.002540		
	50	-6.64	-0.003832		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	1.02	0.000589	Within authorized band for BAND IV	Pass
	3.85	-4.59	-0.002649		
	4.40	5.44	0.003140		
<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		
3.85	-30	4.36	0.002319	Within authorized band for BAND II	Pass
	-20	-0.82	-0.000436		
	-10	-0.15	-0.000080		
	0	6.85	0.003644		
	10	-3.70	-0.001968		
	20	7.41	0.003941		
	30	-1.70	-0.000904		
	40	0.65	0.000346		
	50	-5.39	-0.002867		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-1.04	-0.000553	Within authorized band for BAND II	Pass
	3.85	-6.84	-0.003638		
	4.40	0.44	0.000234		
<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

