

**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	22.57	24.53	33.01	PASS
Band2	TestMode	9262	22.59	24.55	33.01	PASS
Band2	TestMode	9400	22.91	24.87	33.01	PASS
Band2	Voice	9400	22.84	24.8	33.01	PASS
Band2	Voice	9538	22.91	24.87	33.01	PASS
Band2	TestMode	9538	22.93	24.89	33.01	PASS
Band4	TestMode	1312	23.05	23.73	30.00	PASS
Band4	Voice	1312	22.95	23.63	30.00	PASS
Band4	TestMode	1413	23.10	23.78	30.00	PASS
Band4	Voice	1413	23.00	23.68	30.00	PASS
Band4	TestMode	1513	23.15	23.83	30.00	PASS
Band4	Voice	1513	23.08	23.76	30.00	PASS
Band5	TestMode	4132	23.73	22.09	38.45	PASS
Band5	Voice	4132	23.68	22.04	38.45	PASS
Band5	Voice	4183	23.81	22.17	38.45	PASS
Band5	TestMode	4183	23.84	22.2	38.45	PASS
Band5	Voice	4233	23.64	22	38.45	PASS
Band5	TestMode	4233	23.68	22.04	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.48	24.44	33.01	PASS
Band2	9262	2	22.21	24.17	33.01	PASS
Band2	9262	3	21.97	23.93	33.01	PASS
Band2	9262	4	22.11	24.07	33.01	PASS
Band2	9400	1	22.25	24.21	33.01	PASS
Band2	9400	2	21.98	23.94	33.01	PASS
Band2	9400	3	21.70	23.66	33.01	PASS
Band2	9400	4	21.93	23.89	33.01	PASS
Band2	9538	1	22.38	24.34	33.01	PASS
Band2	9538	2	22.03	23.99	33.01	PASS
Band2	9538	3	21.75	23.71	33.01	PASS
Band2	9538	4	21.97	23.93	33.01	PASS
Band4	1312	1	22.38	23.06	30.00	PASS



Band4	1312	2	22.52	23.2	30.00	PASS
Band4	1312	3	22.49	23.17	30.00	PASS
Band4	1312	4	22.49	23.17	30.00	PASS
Band4	1413	1	22.48	23.16	30.00	PASS
Band4	1413	2	22.59	23.27	30.00	PASS
Band4	1413	3	22.57	23.25	30.00	PASS
Band4	1413	4	22.62	23.3	30.00	PASS
Band4	1513	1	22.46	23.14	30.00	PASS
Band4	1513	2	22.48	23.16	30.00	PASS
Band4	1513	3	22.41	23.09	30.00	PASS
Band4	1513	4	22.48	23.16	30.00	PASS
Band5	4132	1	22.92	21.28	38.5	PASS
Band5	4132	2	22.73	21.09	38.5	PASS
Band5	4132	3	22.09	20.45	38.5	PASS
Band5	4132	4	22.11	20.47	38.5	PASS
Band5	4183	1	22.82	21.18	38.5	PASS
Band5	4183	2	22.58	20.94	38.5	PASS
Band5	4183	3	22.16	20.52	38.5	PASS
Band5	4183	4	22.18	20.54	38.5	PASS
Band5	4233	1	22.85	21.21	38.5	PASS
Band5	4233	2	22.61	20.97	38.5	PASS
Band5	4233	3	22.14	20.5	38.5	PASS
Band5	4233	4	22.19	20.55	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.71	21.67	33.01	PASS
Band2	9262	2	20.33	22.29	33.01	PASS
Band2	9262	3	20.12	22.08	33.01	PASS
Band2	9262	4	20.44	22.4	33.01	PASS
Band2	9262	5	22.58	24.54	33.01	PASS
Band2	9400	1	19.62	21.58	33.01	PASS
Band2	9400	2	20.07	22.03	33.01	PASS
Band2	9400	3	19.86	21.82	33.01	PASS
Band2	9400	4	20.14	22.1	33.01	PASS
Band2	9400	5	22.45	24.41	33.01	PASS
Band2	9538	1	19.80	21.76	33.01	PASS
Band2	9538	2	20.19	22.15	33.01	PASS
Band2	9538	3	19.98	21.94	33.01	PASS
Band2	9538	4	20.27	22.23	33.01	PASS
Band2	9538	5	22.50	24.46	33.01	PASS



Band4	1312	1	21.79	22.47	30.00	PASS
Band4	1312	2	21.94	22.62	30.00	PASS
Band4	1312	3	21.70	22.38	30.00	PASS
Band4	1312	4	22.00	22.68	30.00	PASS
Band4	1312	5	22.58	23.26	30.00	PASS
Band4	1413	1	21.96	22.64	30.00	PASS
Band4	1413	2	22.11	22.79	30.00	PASS
Band4	1413	3	21.85	22.53	30.00	PASS
Band4	1413	4	22.20	22.88	30.00	PASS
Band4	1413	5	22.65	23.33	30.00	PASS
Band4	1513	1	21.95	22.63	30.00	PASS
Band4	1513	2	21.95	22.63	30.00	PASS
Band4	1513	3	21.78	22.46	30.00	PASS
Band4	1513	4	22.01	22.69	30.00	PASS
Band4	1513	5	22.56	23.24	30.00	PASS
Band5	4132	1	21.20	19.56	38.5	PASS
Band5	4132	2	21.55	19.91	38.5	PASS
Band5	4132	3	21.31	19.67	38.5	PASS
Band5	4132	4	21.16	19.52	38.5	PASS
Band5	4132	5	23.08	21.44	38.5	PASS
Band5	4183	1	21.41	19.77	38.5	PASS
Band5	4183	2	21.56	19.92	38.5	PASS
Band5	4183	3	21.30	19.66	38.5	PASS
Band5	4183	4	21.33	19.69	38.5	PASS
Band5	4183	5	23.18	21.54	38.5	PASS
Band5	4233	1	21.69	20.05	38.5	PASS
Band5	4233	2	21.82	20.18	38.5	PASS
Band5	4233	3	21.58	19.94	38.5	PASS
Band5	4233	4	21.38	19.74	38.5	PASS
Band5	4233	5	23.20	21.56	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)



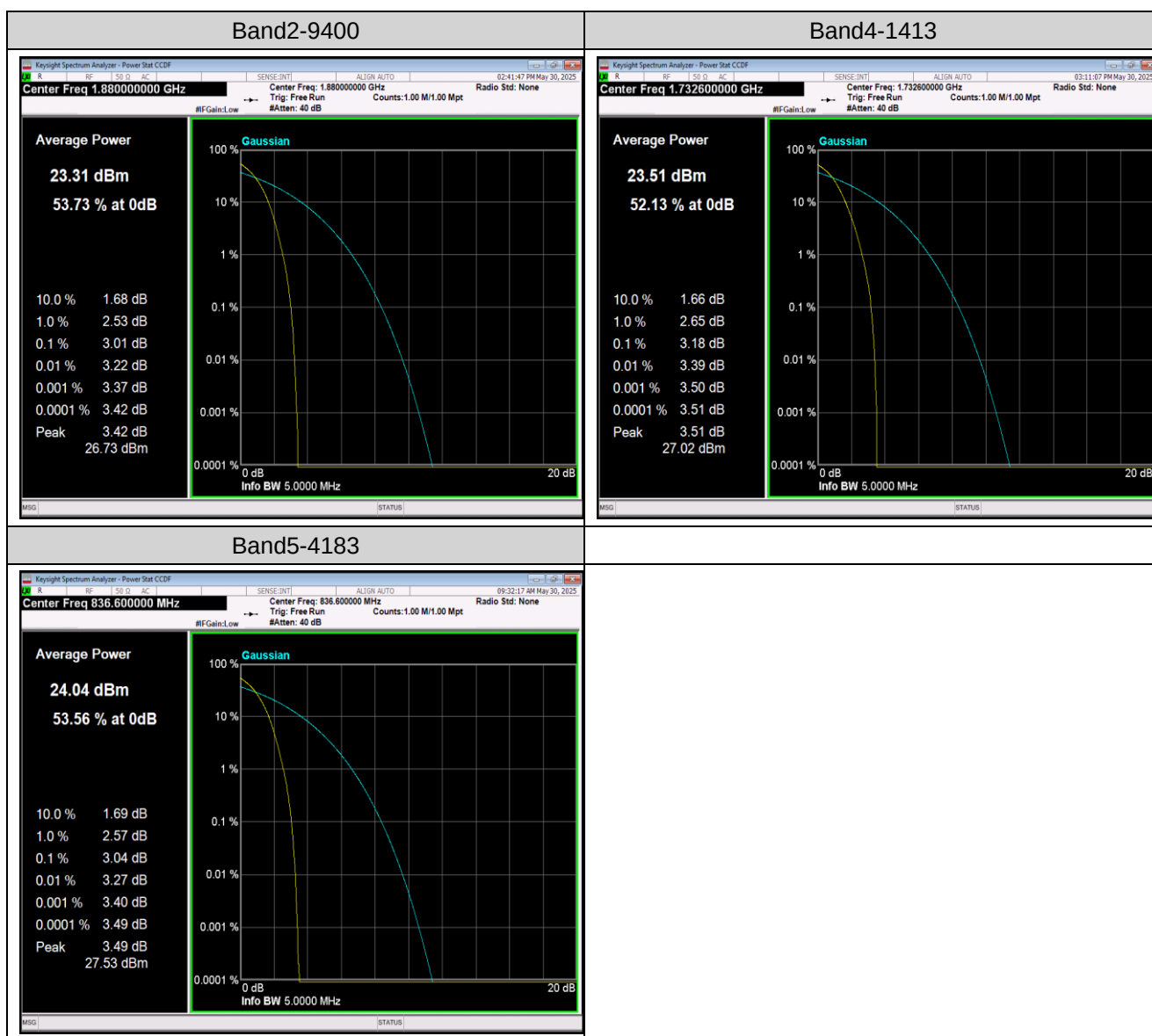
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.01	13	PASS
Band4	1413	3.18	13	PASS
Band5	4183	3.04	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	4.1405	4.665	---	PASS
Band2	9400	4.1431	4.661	---	PASS
Band2	9538	4.1439	4.658	---	PASS
Band4	1312	4.1484	4.665	---	PASS
Band4	1413	4.1485	4.666	---	PASS
Band4	1513	4.1502	4.664	---	PASS
Band5	4132	4.1386	4.671	---	PASS
Band5	4183	4.1460	4.664	---	PASS
Band5	4233	4.1383	4.655	---	PASS

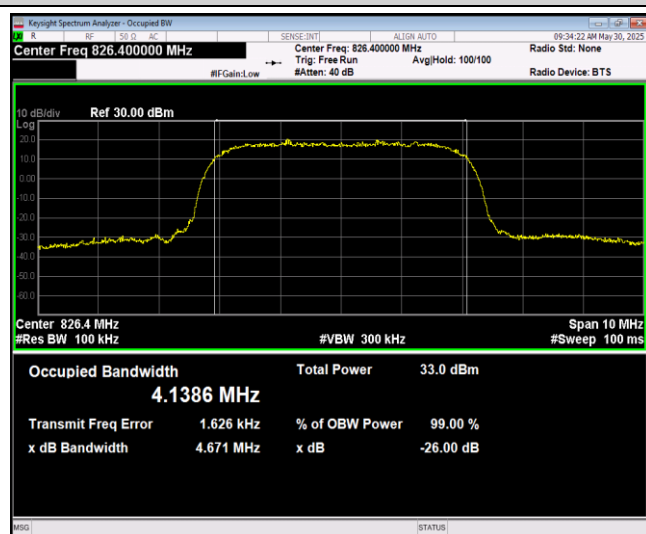


Test Graphs(WCDMA)

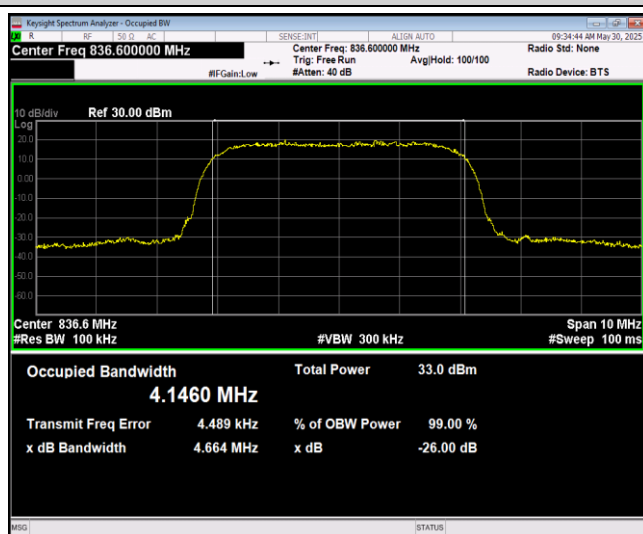




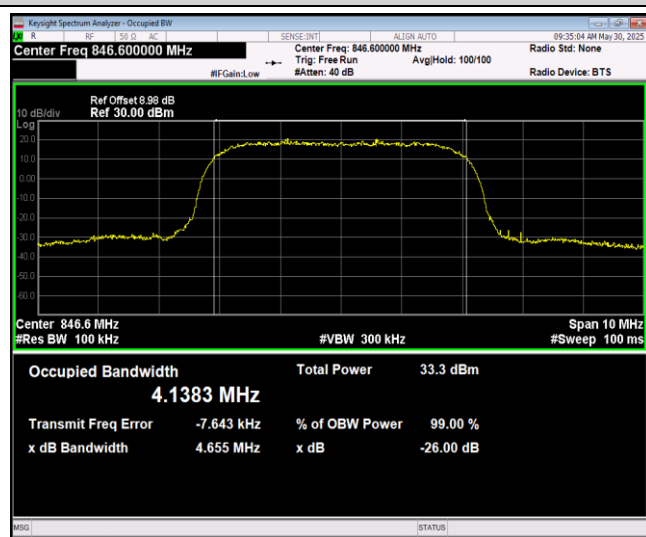
Band5-4132



Band5-4183



Band5-4233





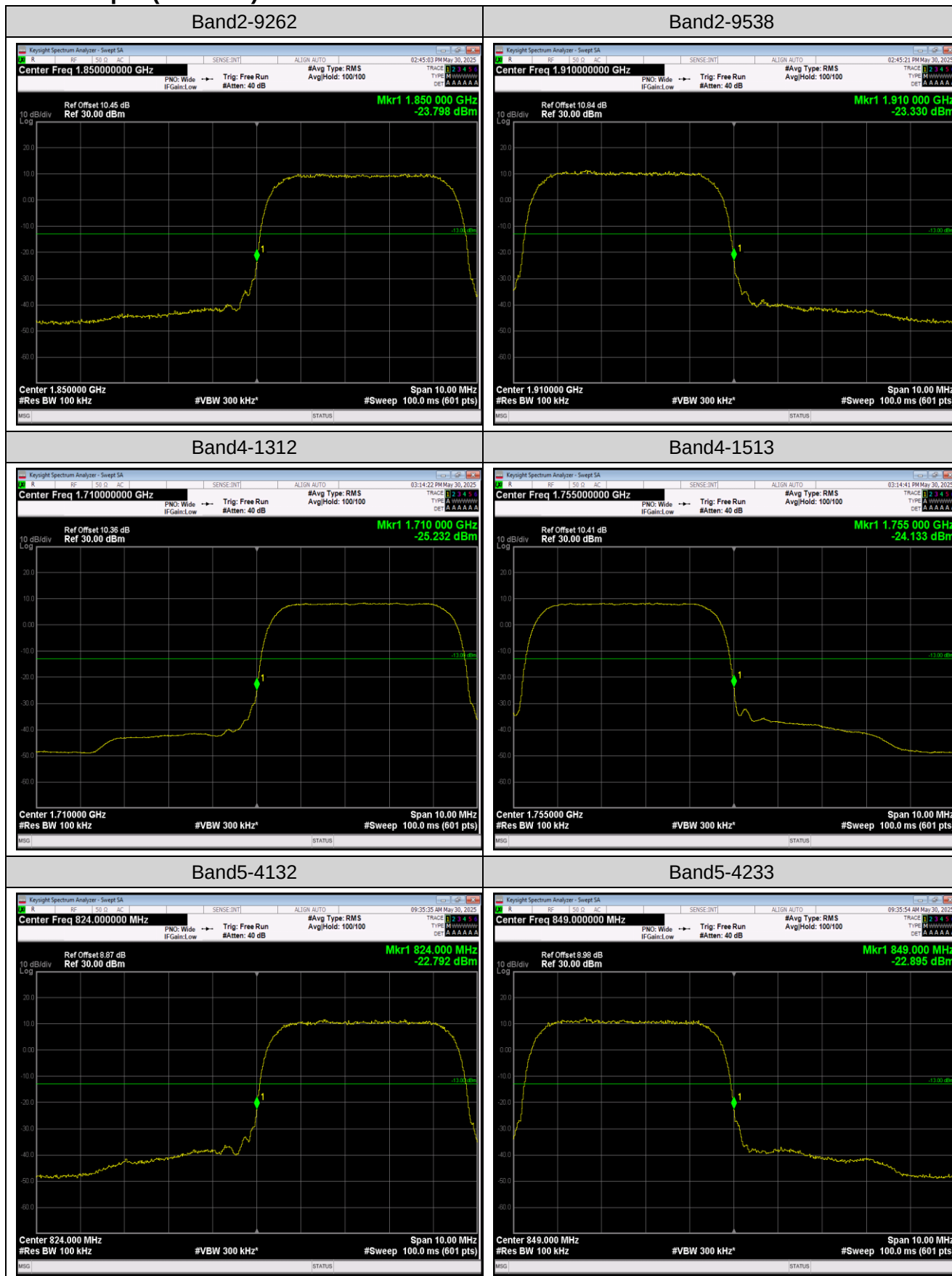
AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.80	-13	PASS
Band2	9538	1910.00	-23.33	-13	PASS
Band4	1312	1710.00	-25.23	-13	PASS
Band4	1513	1755.00	-24.13	-13	PASS
Band5	4132	824.00	-22.79	-13	PASS
Band5	4233	849.00	-22.89	-13	PASS



Test Graphs(WCDMA)





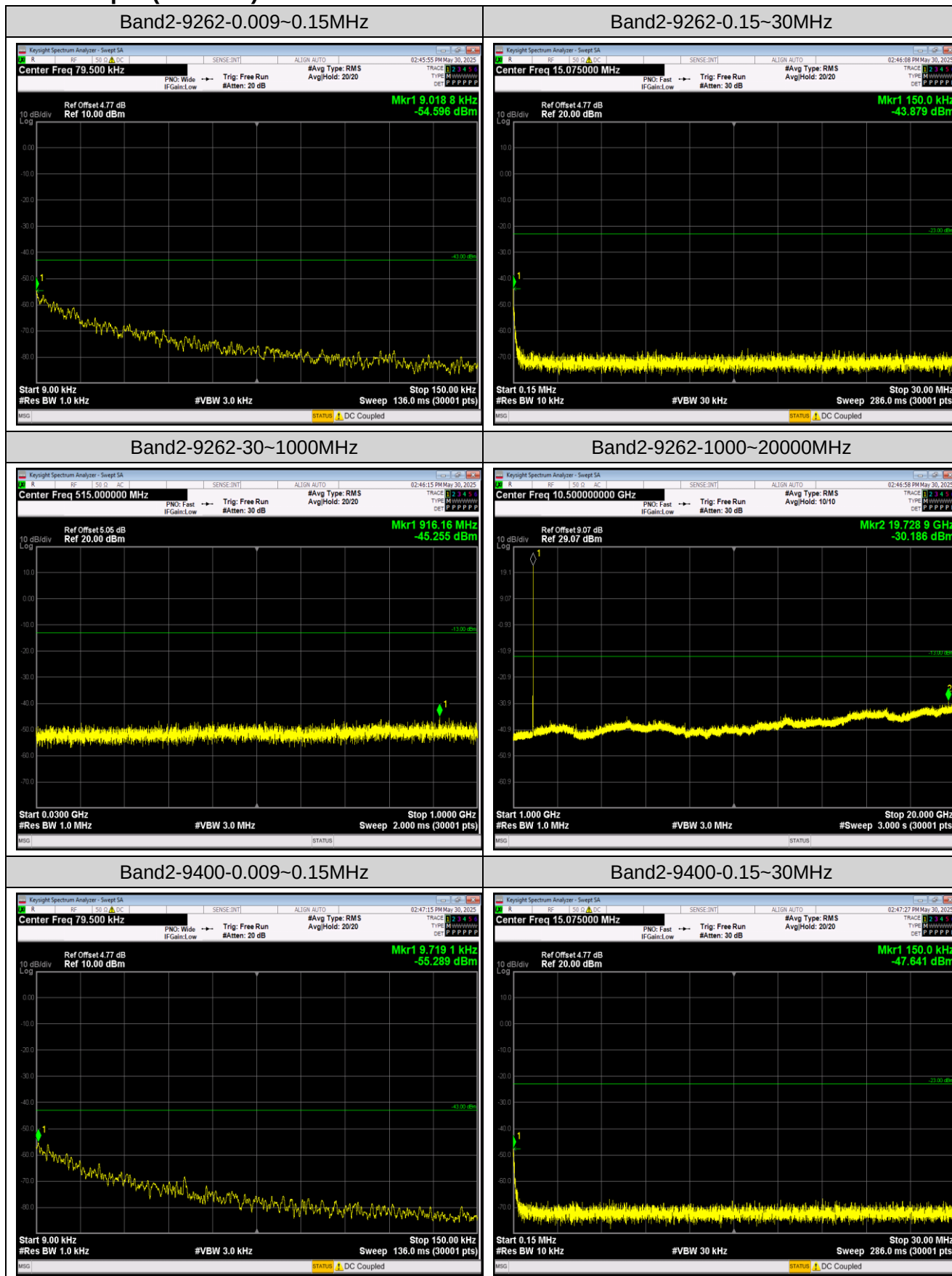
AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.6	-43	PASS
Band2	9262	0.15~30MHz	0.15	-43.88	-23	PASS
Band2	9262	30~1000MHz	916.16	-45.26	-13	PASS
Band2	9262	1000~20000MHz	19728.93	-30.19	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.29	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.64	-23	PASS
Band2	9400	30~1000MHz	268.75	-45.86	-13	PASS
Band2	9400	1000~20000MHz	19936.67	-30.94	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-54.62	-43	PASS
Band2	9538	0.15~30MHz	0.15	-45.68	-23	PASS
Band2	9538	30~1000MHz	869.86	-45.82	-13	PASS
Band2	9538	1000~20000MHz	19969.6	-30.78	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-55.06	-43	PASS
Band4	1312	0.15~30MHz	0.16	-45.41	-23	PASS
Band4	1312	30~1000MHz	819.94	-45.61	-13	PASS
Band4	1312	1000~20000MHz	19698.53	-30.38	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-54.66	-43	PASS
Band4	1413	0.15~30MHz	0.15	-47.03	-23	PASS
Band4	1413	30~1000MHz	810.14	-45.23	-13	PASS
Band4	1413	1000~20000MHz	19873.97	-30.28	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-54.06	-43	PASS
Band4	1513	0.15~30MHz	0.16	-46.2	-23	PASS
Band4	1513	30~1000MHz	831.45	-44.97	-13	PASS
Band4	1513	1000~20000MHz	19821.4	-29.92	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.78	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.25	-13	PASS
Band5	4132	30~1000MHz	538.05	-54.05	-13	PASS
Band5	4132	1000~10000MHz	5899.9	-36.9	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-53.95	-33	PASS
Band5	4183	0.15~30MHz	0.15	-45.34	-13	PASS
Band5	4183	30~1000MHz	621.22	-54.99	-13	PASS
Band5	4183	1000~10000MHz	5923.3	-36.99	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.93	-33	PASS
Band5	4233	0.15~30MHz	0.15	-48.21	-13	PASS
Band5	4233	30~1000MHz	668.36	-54.82	-13	PASS
Band5	4233	1000~10000MHz	5917.3	-36.06	-13	PASS

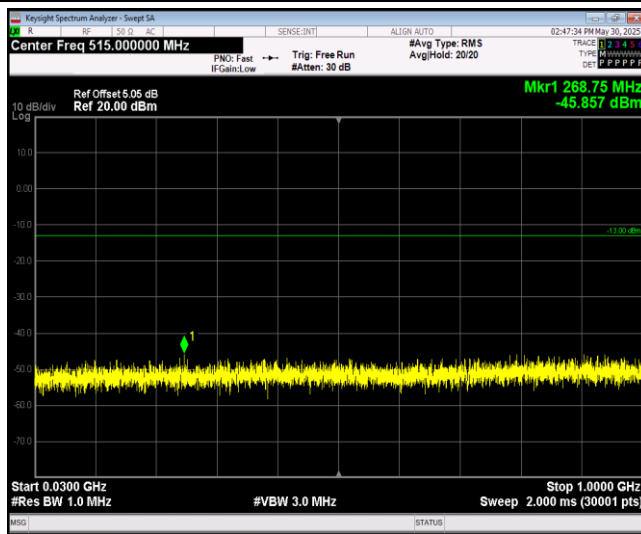


Test Graphs(WCDMA)

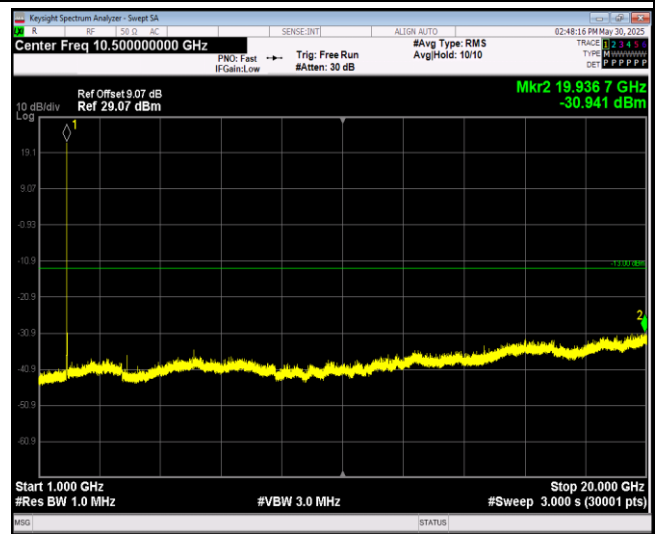




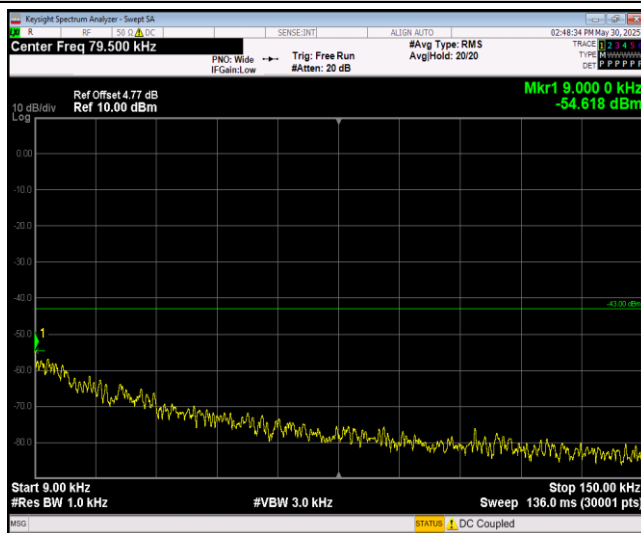
Band2-9400-30~1000MHz



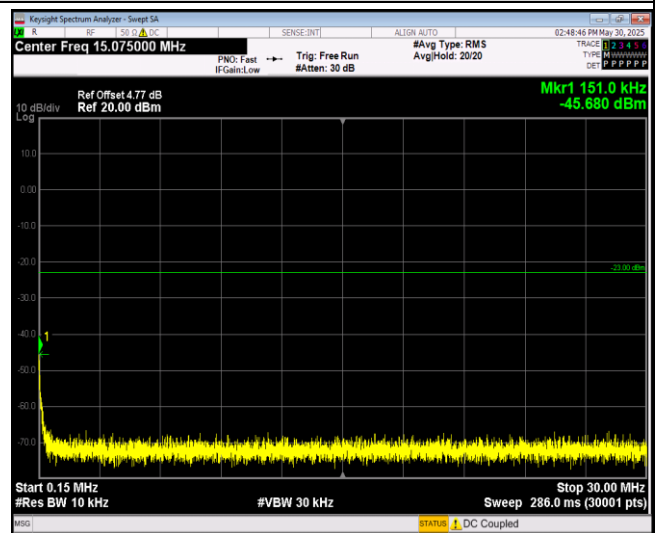
Band2-9400-1000~20000MHz



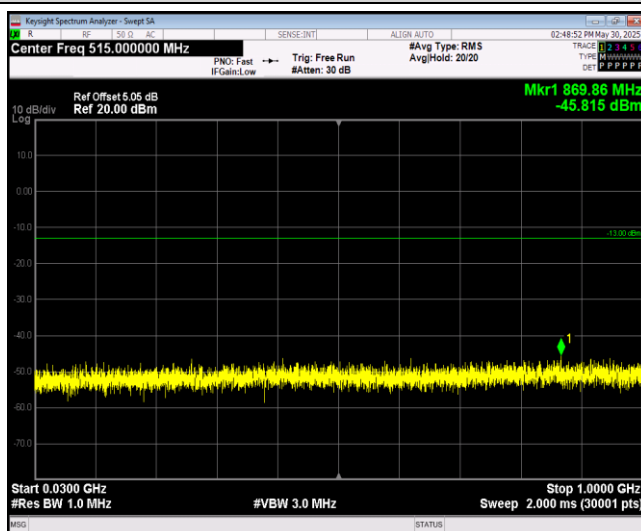
Band2-9538-0.009~0.15MHz



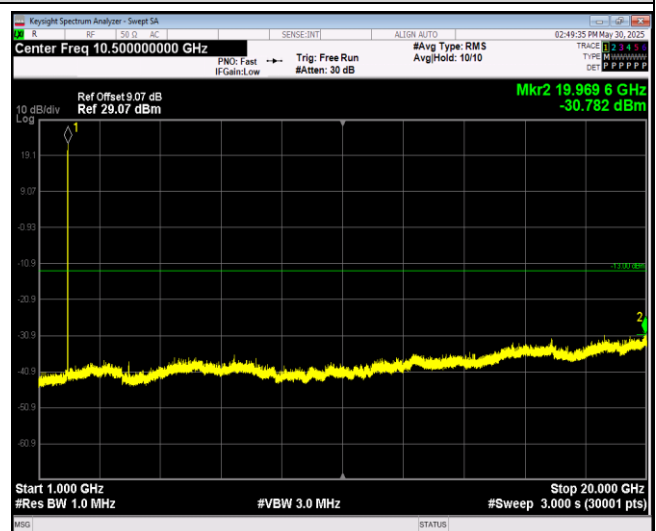
Band2-9538-0.15~30MHz



Band2-9538-30~1000MHz

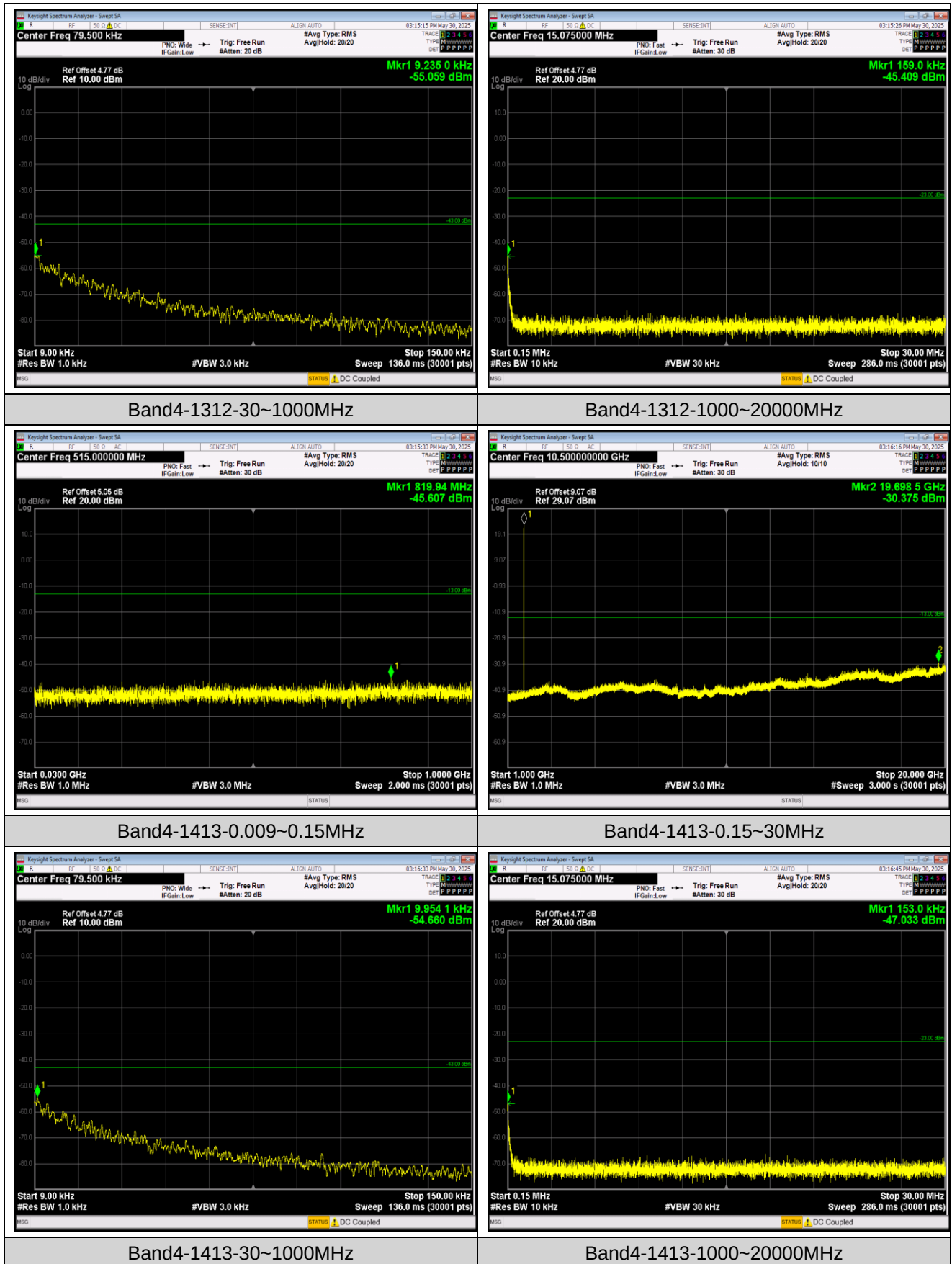


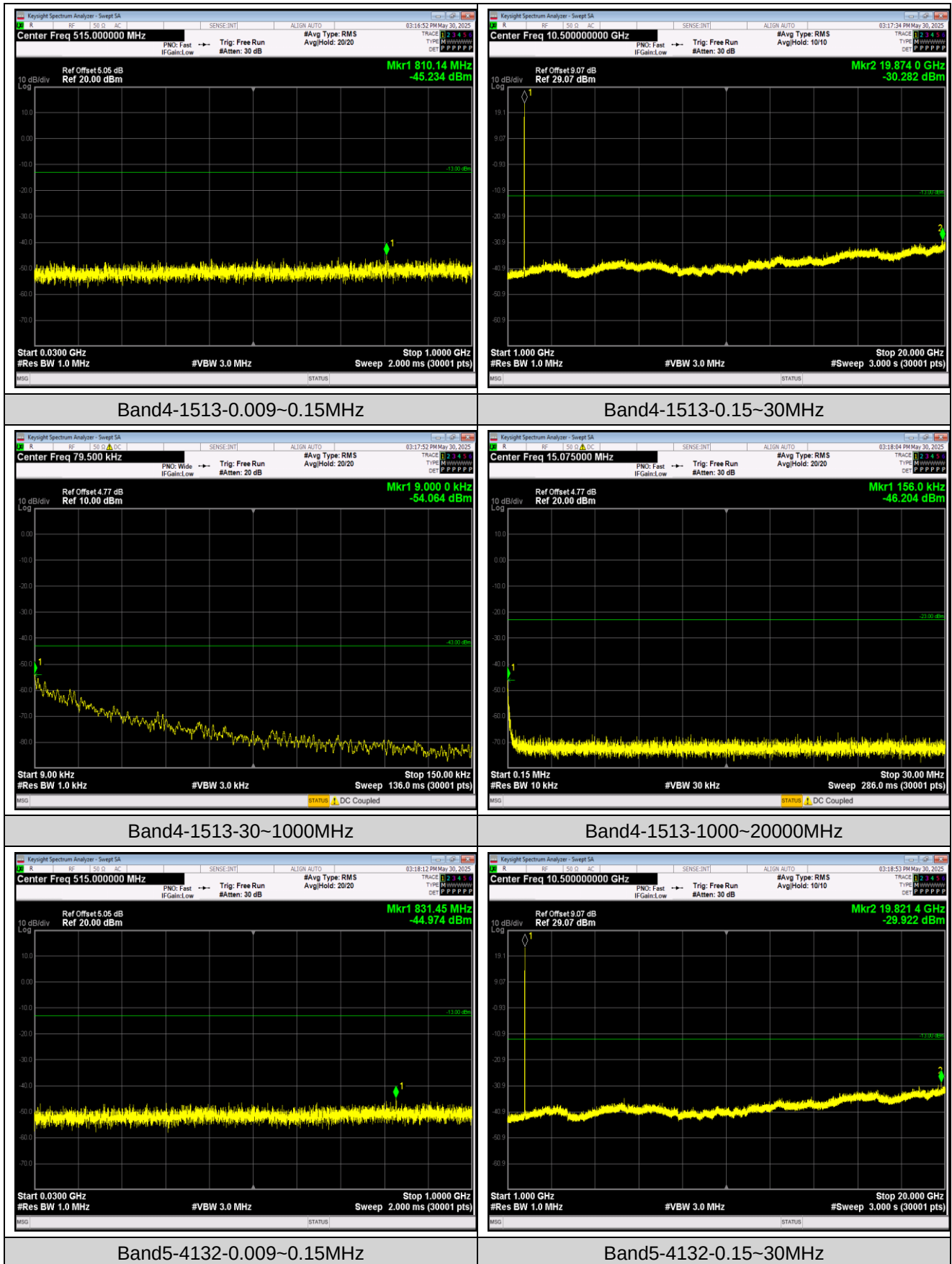
Band2-9538-1000~20000MHz

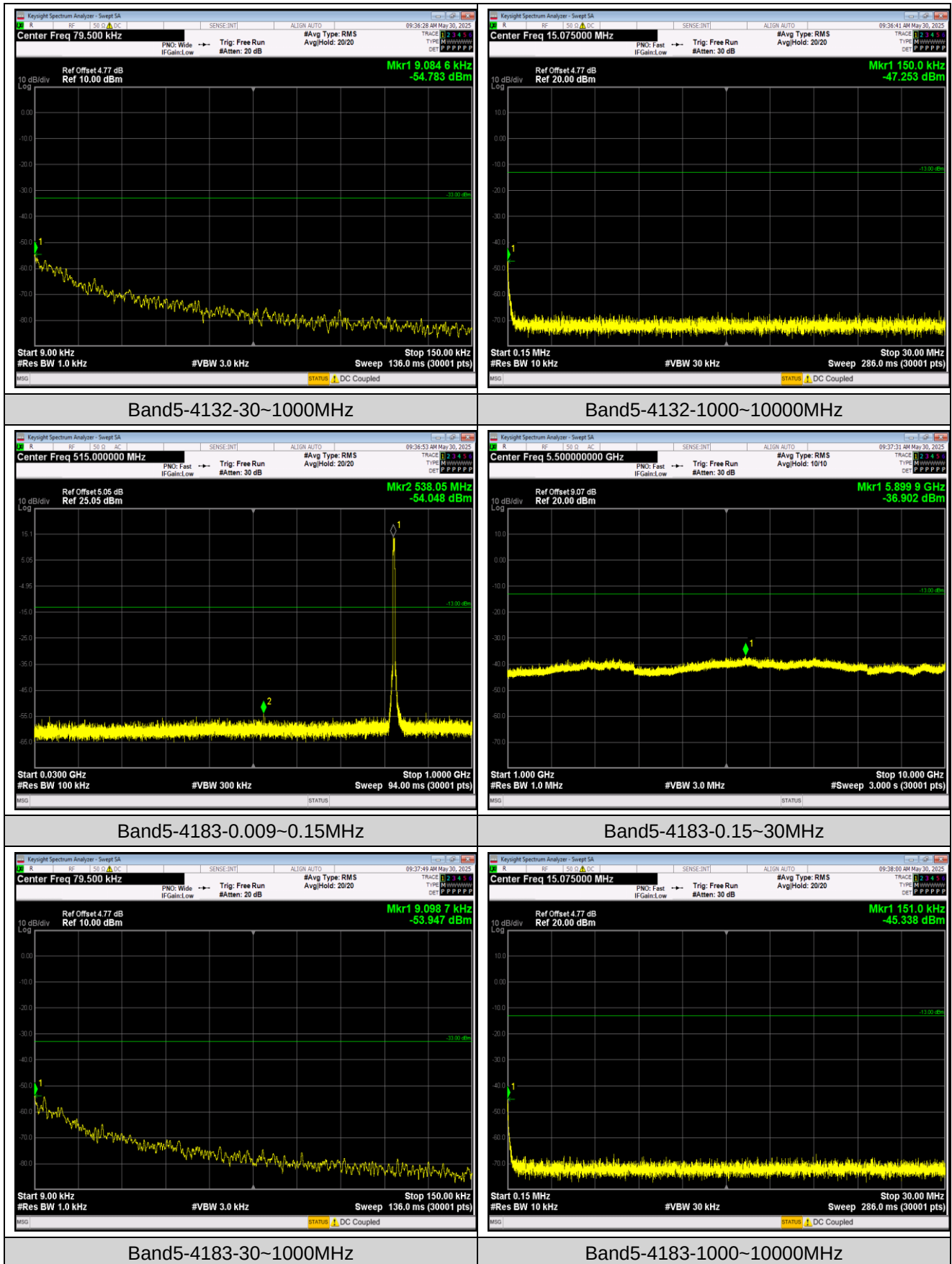


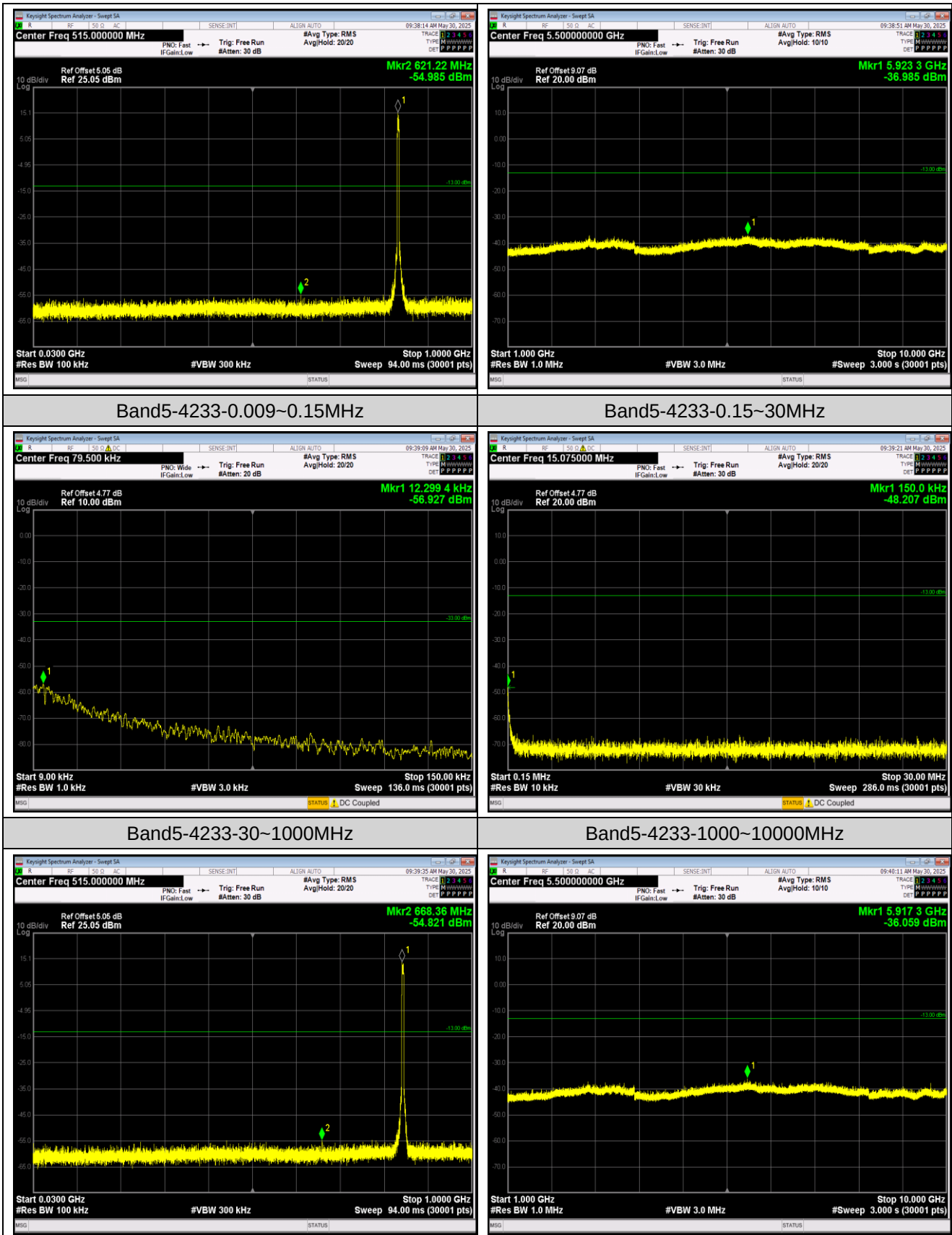
Band4-1312-0.009~0.15MHz

Band4-1312-0.15~30MHz











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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	2.23	0.002666	±2.5	Pass
	-20	-0.47	-0.000562		
	-10	-0.37	-0.000442		
	0	1.76	0.002104		
	10	0.87	0.001040		
	20	-0.28	-0.000335		
	30	0.72	0.000861		
	40	-0.60	-0.000717		
	50	0.64	0.000765		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.39	-0.004052	±2.5	Pass
	3.87	-1.97	-0.002355		
	4.45	-2.25	-0.002689		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	1.37	0.000791	Within authorized band for BAND IV	Pass
	-20	0.88	0.000508		
	-10	-3.58	-0.002066		
	0	-1.88	-0.001085		
	10	1.47	0.000848		
	20	3.58	0.002066		
	30	1.48	0.000854		
	40	-1.39	-0.000802		
	50	-2.52	-0.001454		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.70	0.001558	Within authorized band for BAND IV	Pass
	3.87	4.75	0.002742		
	4.45	4.75	0.002742		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	-3.88	-0.002064	Within authorized band for BAND II	Pass
	-20	2.93	0.001559		
	-10	4.60	0.002447		
	0	3.58	0.001904		
	10	5.41	0.002878		
	20	5.84	0.003106		
	30	3.23	0.001718		
	40	4.55	0.002420		
	50	4.57	0.002431		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-6.83	-0.003633	Within authorized band for BAND II	Pass
	3.87	3.60	0.001915		
	4.45	-4.45	-0.002367		
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

