

Appendix for WCDMA Band 5

Product Name: Smart Phone

Model No: N3

Appendix A: Conducted Average Power

Test Result

WCDMA

Band	Channel	Power(dBm)	Verdict
Band5	4132	22.82	PASS
Band5	4182	22.75	PASS
Band5	4183	22.73	PASS
Band5	4233	22.83	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	Verdict
Band5	4132	1	21.83	PASS
Band5	4132	2	21.30	PASS
Band5	4132	3	21.34	PASS
Band5	4132	4	21.30	PASS
Band5	4183	1	21.75	PASS
Band5	4183	2	21.23	PASS
Band5	4183	3	21.27	PASS
Band5	4183	4	21.23	PASS
Band5	4233	1	21.83	PASS
Band5	4233	2	21.30	PASS
Band5	4233	3	21.33	PASS
Band5	4233	4	21.29	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	Verdict
Band5	4132	1	20.78	PASS
Band5	4132	2	20.29	PASS
Band5	4132	3	20.82	PASS
Band5	4132	4	20.81	PASS
Band5	4132	5	21.79	PASS
Band5	4183	1	20.70	PASS
Band5	4183	2	20.20	PASS
Band5	4183	3	20.71	PASS
Band5	4183	4	20.74	PASS
Band5	4183	5	21.75	PASS

Band5	4233	1	20.77	PASS
Band5	4233	2	20.27	PASS
Band5	4233	3	20.80	PASS
Band5	4233	4	20.81	PASS
Band5	4233	5	21.83	PASS

Hotspot Mode:

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	20.79	38.45	PASS
Band5	4183	20.72	38.45	PASS
Band5	4233	20.77	38.45	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	1	19.78	38.5	PASS
Band5	4132	2	19.27	38.5	PASS
Band5	4132	3	19.32	38.5	PASS
Band5	4132	4	19.27	38.5	PASS
Band5	4183	1	19.73	38.5	PASS
Band5	4183	2	19.21	38.5	PASS
Band5	4183	3	19.26	38.5	PASS
Band5	4183	4	19.21	38.5	PASS
Band5	4233	1	19.74	38.5	PASS
Band5	4233	2	19.24	38.5	PASS
Band5	4233	3	19.31	38.5	PASS
Band5	4233	4	19.25	38.5	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	1	18.73	38.5	PASS
Band5	4132	2	18.23	38.5	PASS
Band5	4132	3	18.75	38.5	PASS
Band5	4132	4	18.77	38.5	PASS
Band5	4132	5	19.78	38.5	PASS
Band5	4183	1	18.65	38.5	PASS
Band5	4183	2	18.17	38.5	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

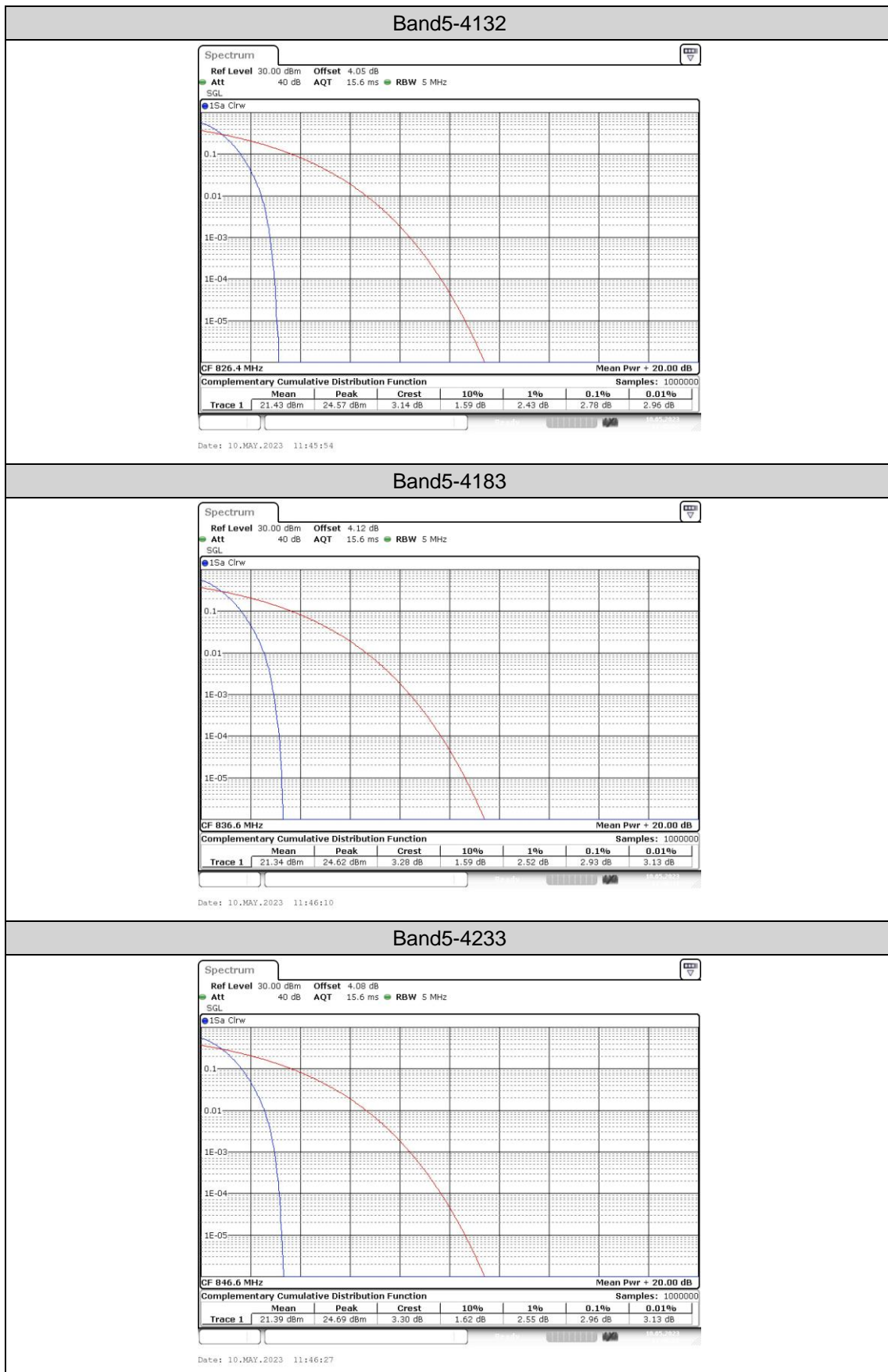
Band5	4183	3	18.69	38.5	PASS
Band5	4183	4	15.68	38.5	PASS
Band5	4183	5	19.71	38.5	PASS
Band5	4233	1	15.72	38.5	PASS
Band5	4233	2	18.23	38.5	PASS
Band5	4233	3	18.74	38.5	PASS
Band5	4233	4	15.74	38.5	PASS
Band5	4233	5	19.74	38.5	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.78	13	PASS
Band5	4183	2.93	13	PASS
Band5	4233	2.96	13	PASS

Test Graphs

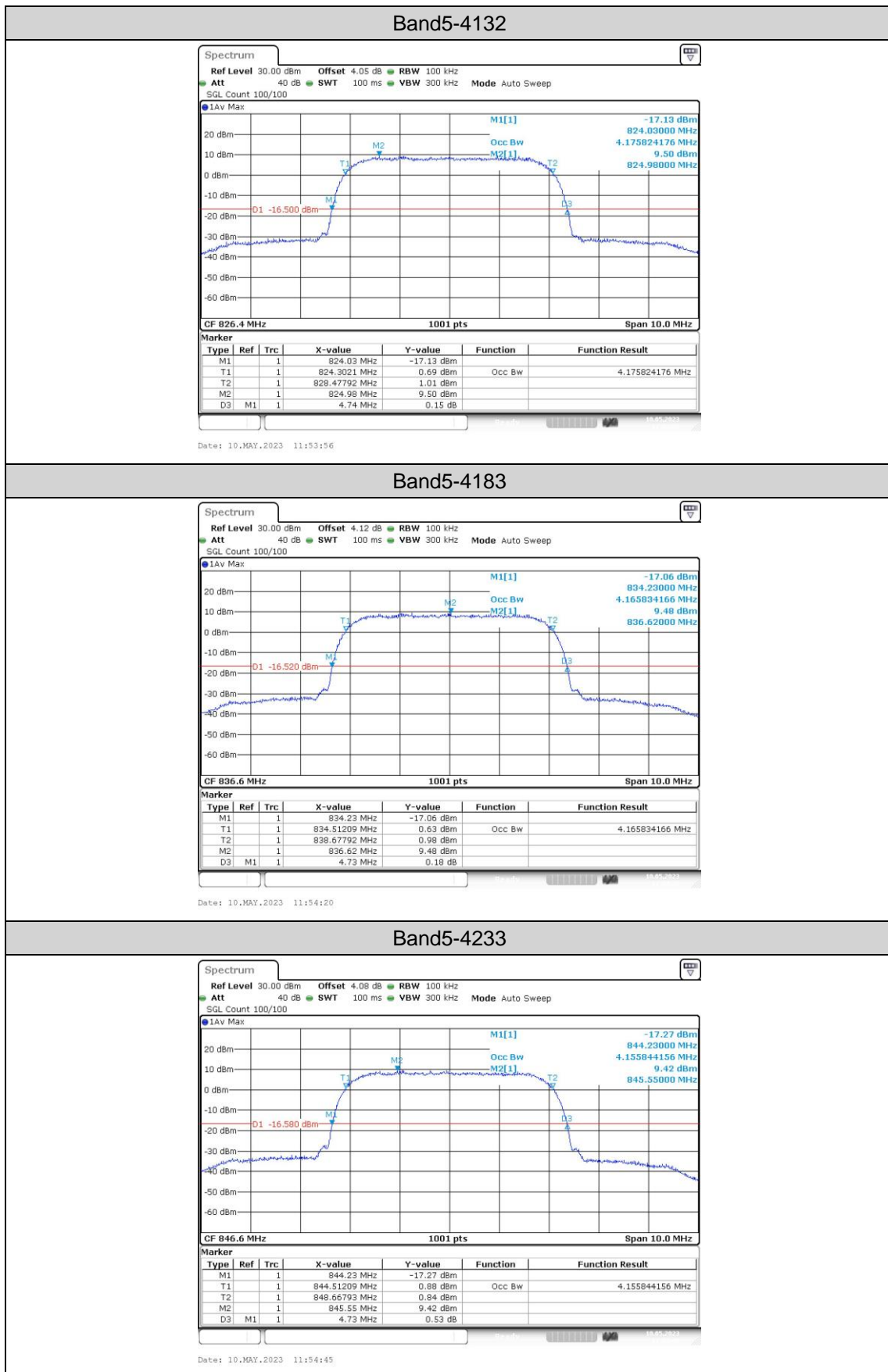


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band5	4132	4.176	4.74	---	PASS
Band5	4183	4.166	4.73	---	PASS
Band5	4233	4.156	4.73	---	PASS

Test Graphs

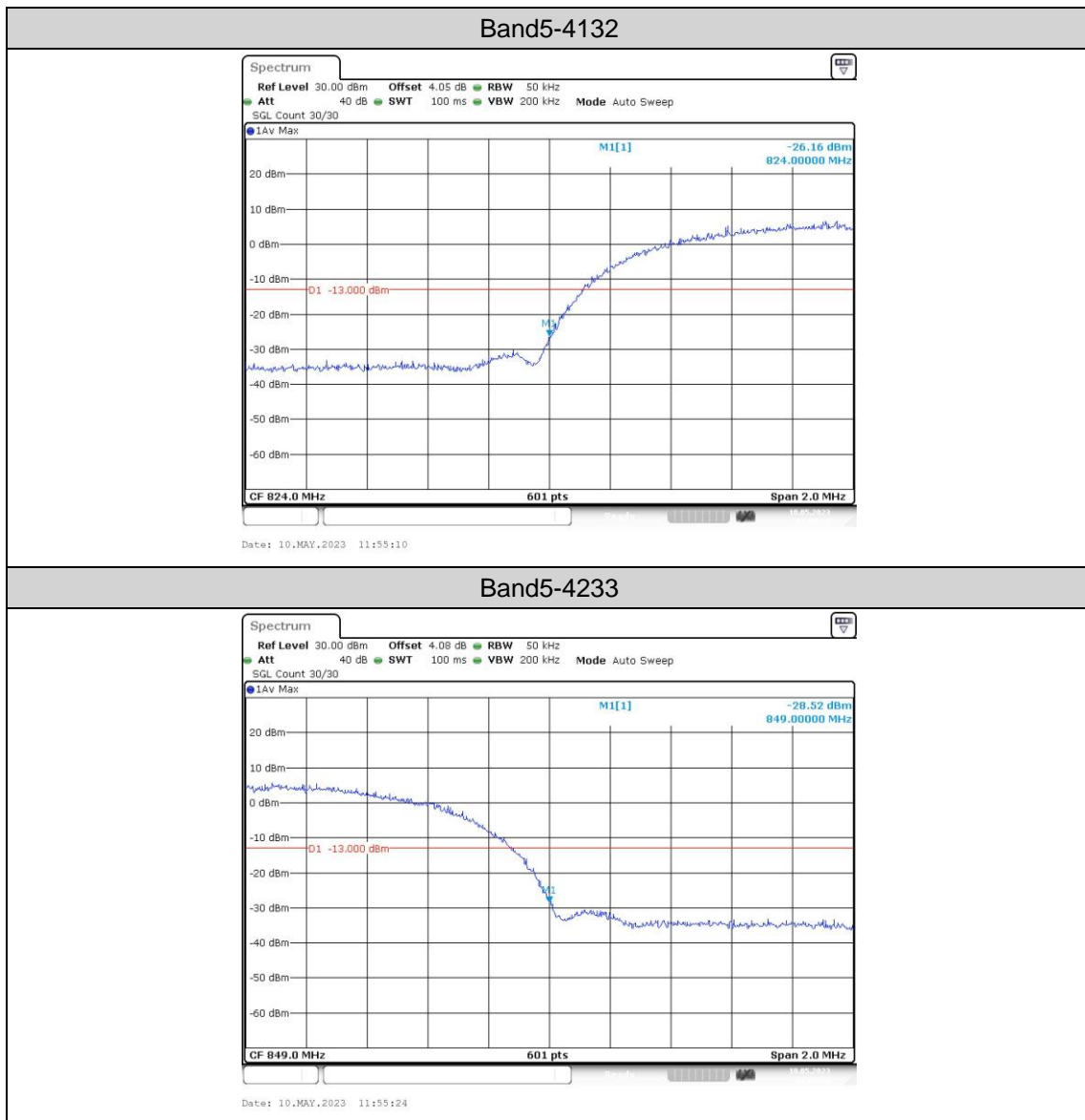


Appendix D: Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	824.00	-26.16	-13	PASS
Band5	4233	849.00	-27.18	-13	PASS

Test Graphs

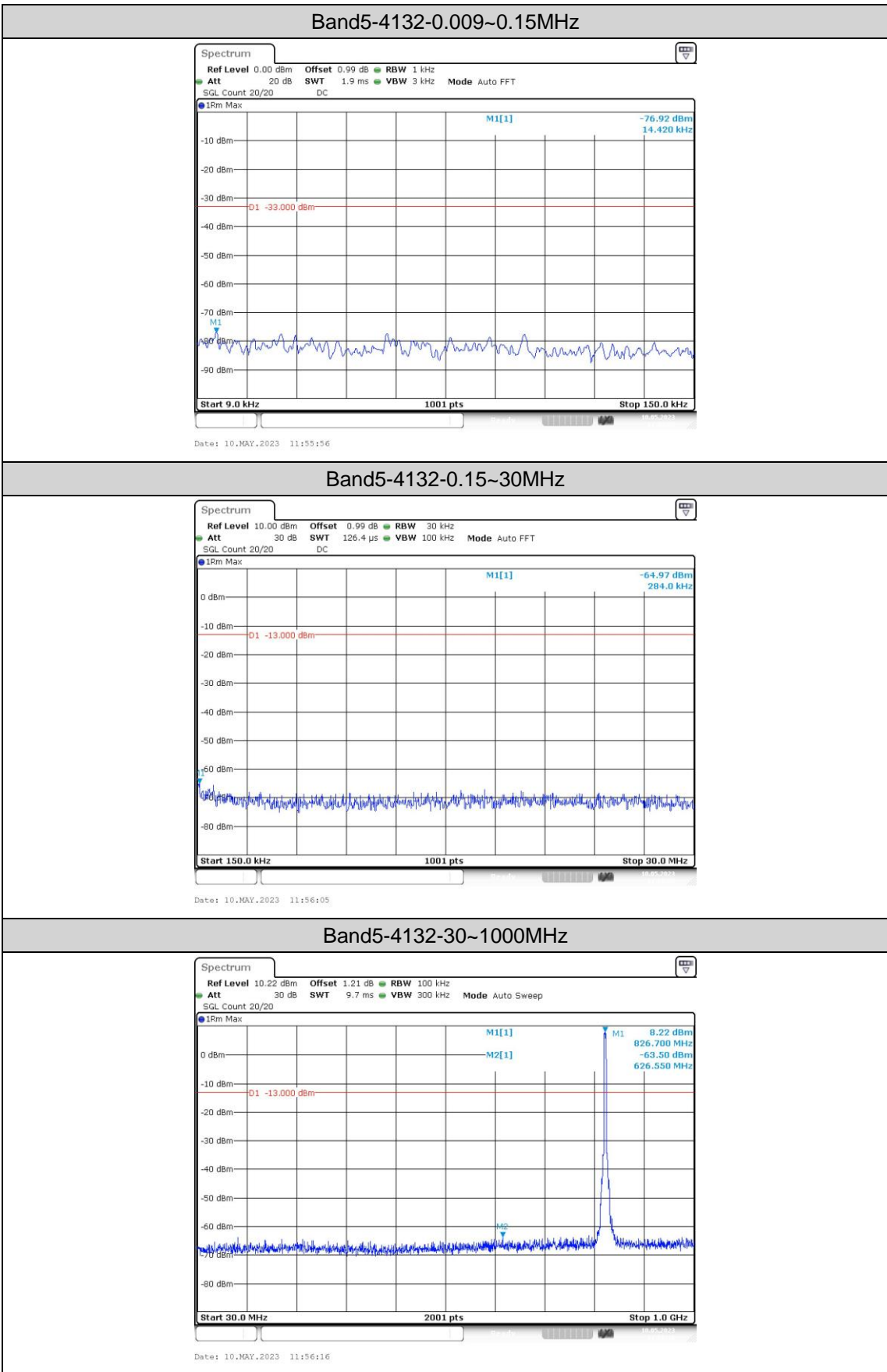


Appendix E: Conducted Spurious Emission

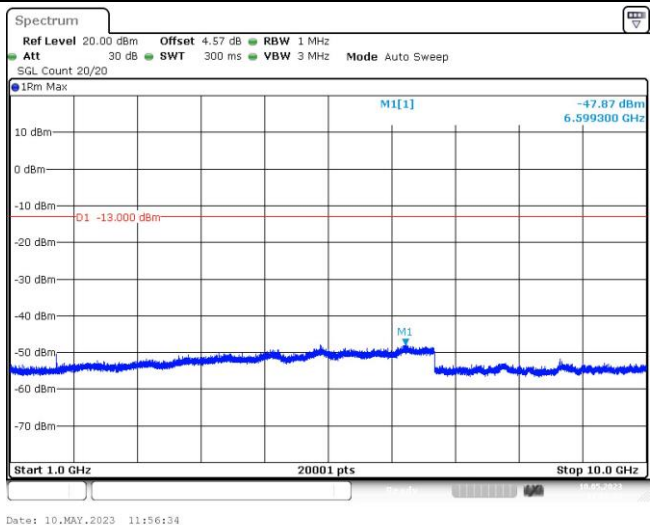
Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	0.009~0.15MHz	0.01	-76.92	-33	PASS
Band5	4132	0.15~30MHz	0.28	-64.97	-13	PASS
Band5	4132	30~1000MHz	626.55	-63.5	-13	PASS
Band5	4132	1000~10000MHz	6599.3	-47.87	-13	PASS
Band5	4183	0.009~0.15MHz	0.02	-77.78	-33	PASS
Band5	4183	0.15~30MHz	0.2	-63.34	-13	PASS
Band5	4183	30~1000MHz	946.17	-62.59	-13	PASS
Band5	4183	1000~10000MHz	6615.04	-48.05	-13	PASS
Band5	4233	0.009~0.15MHz	0.03	-76.47	-33	PASS
Band5	4233	0.15~30MHz	0.17	-63.72	-13	PASS
Band5	4233	30~1000MHz	723.07	-63.13	-13	PASS
Band5	4233	1000~10000MHz	6845.43	-47.49	-13	PASS

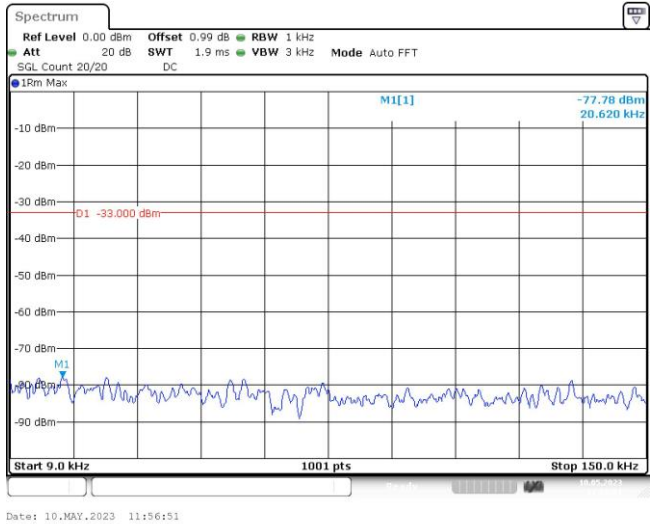
Test Graphs



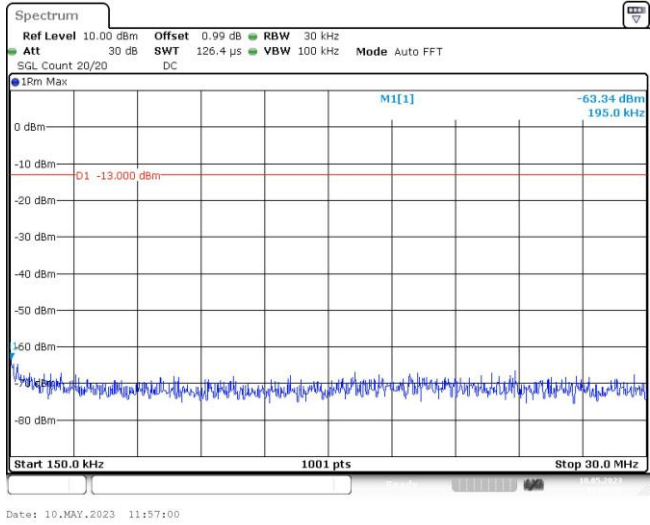
Band5-4132-1000~10000MHz



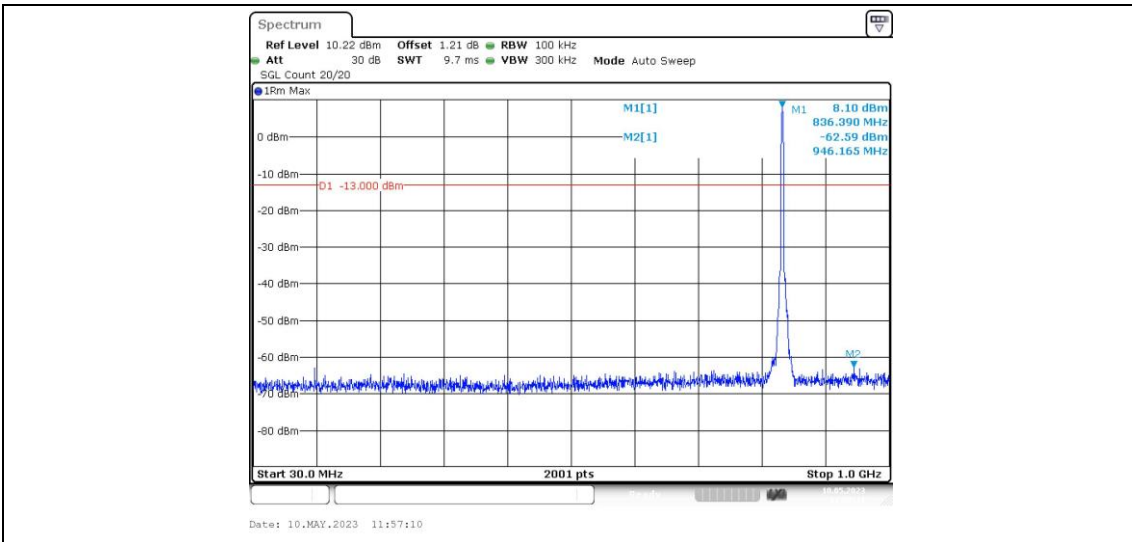
Band5-4183-0.009~0.15MHz



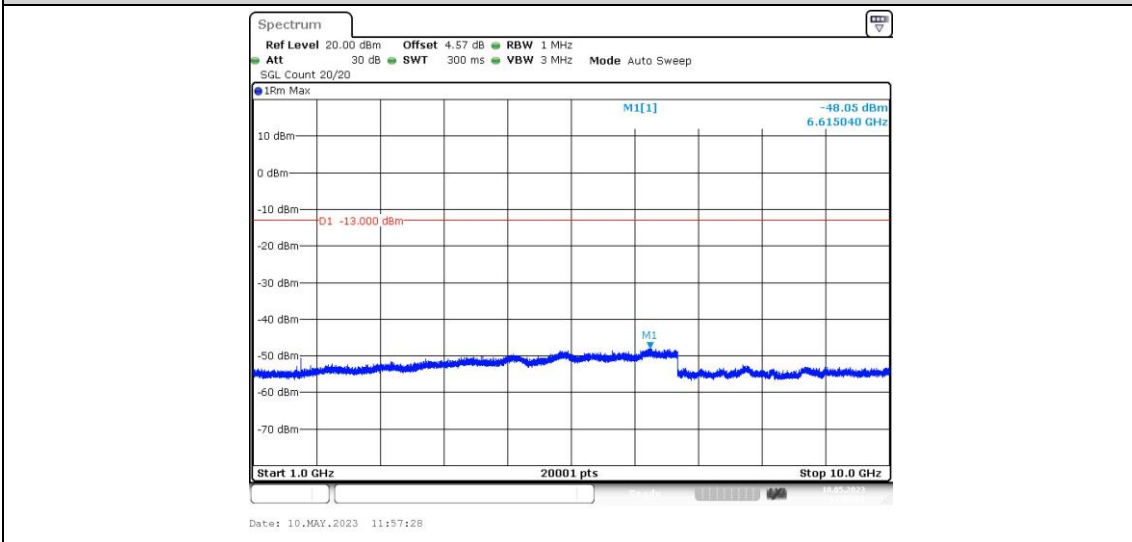
Band5-4183-0.15~30MHz



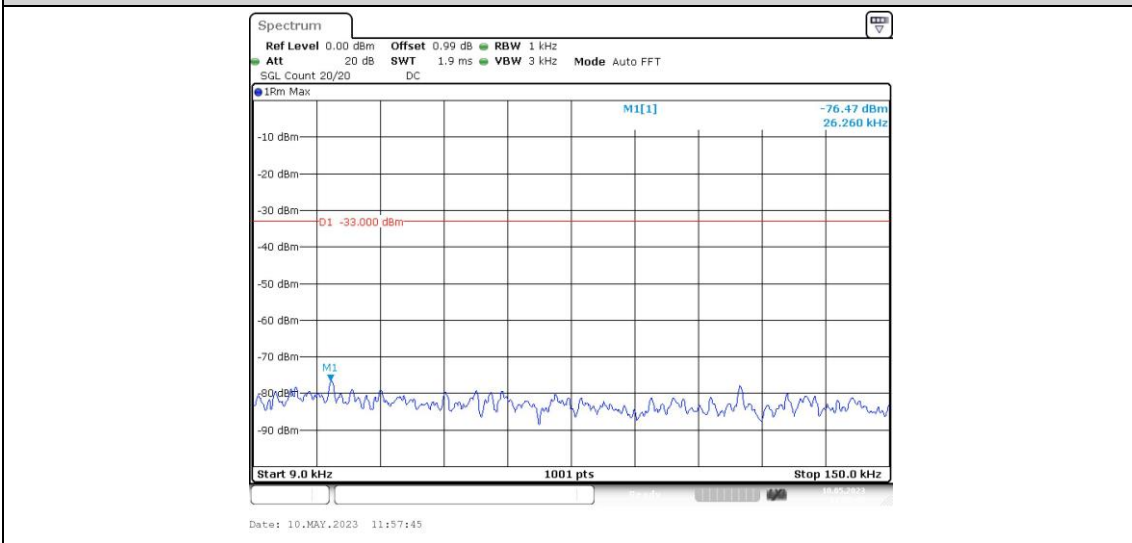
Band5-4183-30~1000MHz



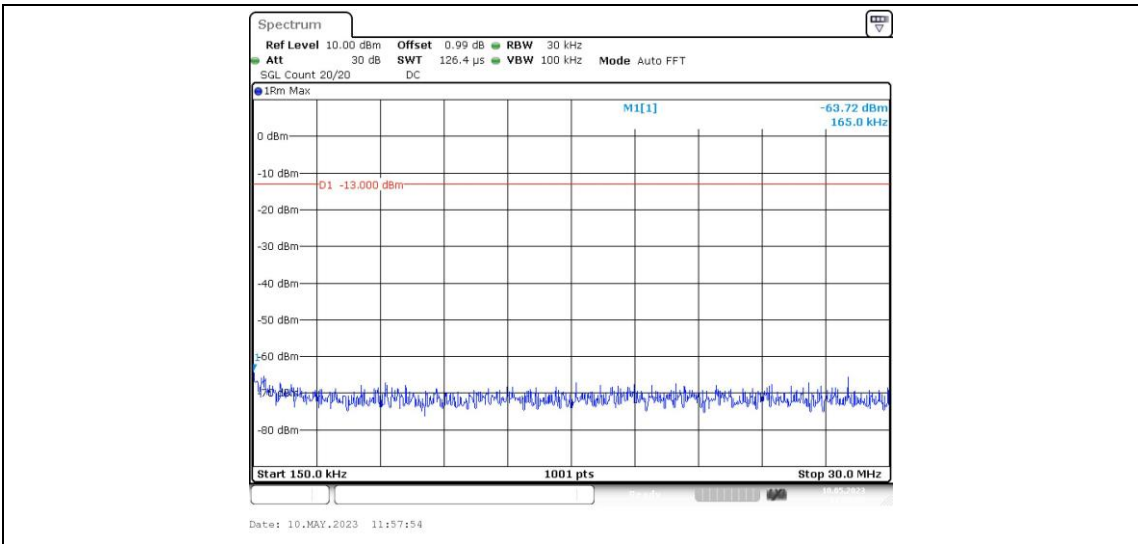
Band5-4183-1000~10000MHz



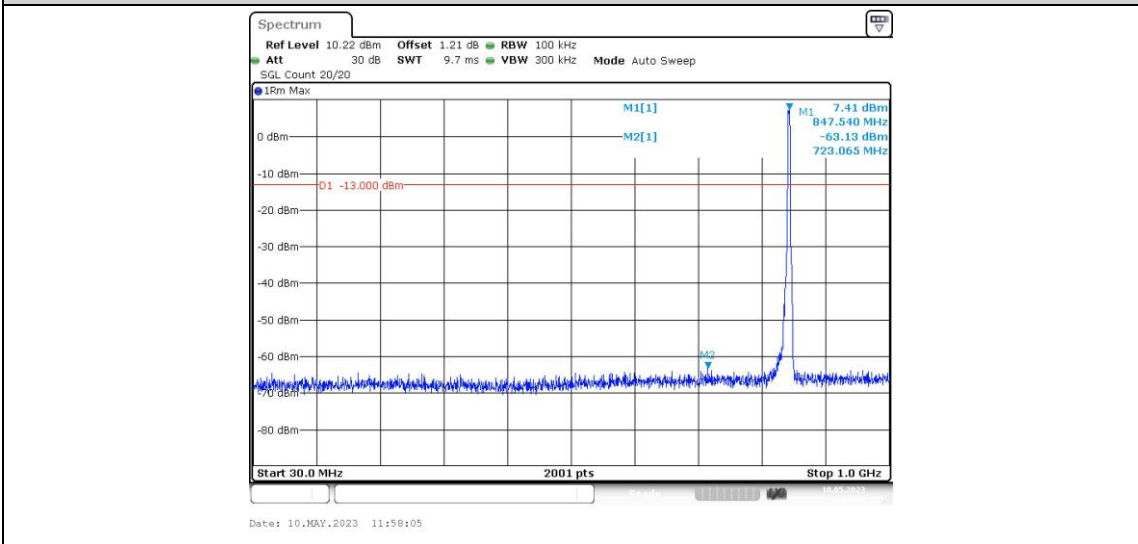
Band5-4233-0.009~0.15MHz



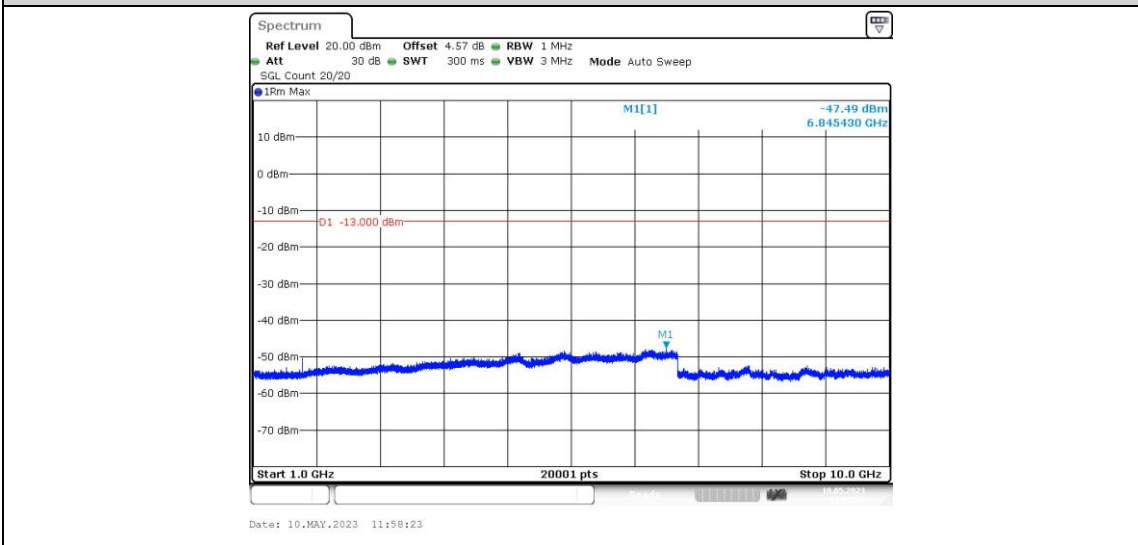
Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-2.56	-0.003098	±2.5	PASS
Band5	4132	VN	NT	-1.87	-0.002263	±2.5	PASS
Band5	4132	VH	NT	-1.58	-0.001912	±2.5	PASS
Band5	4183	VL	NT	-1.23	-0.001470	±2.5	PASS
Band5	4183	VN	NT	-1.25	-0.001494	±2.5	PASS
Band5	4183	VH	NT	-0.87	-0.001040	±2.5	PASS
Band5	4233	VL	NT	4.55	0.005374	±2.5	PASS
Band5	4233	VN	NT	-4.07	-0.004807	±2.5	PASS
Band5	4233	VH	NT	2.32	0.002740	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-1.87	-0.002263	±2.5	PASS
Band5	4132	NV	-20	-2.45	-0.002965	±2.5	PASS
Band5	4132	NV	-10	-1.42	-0.001718	±2.5	PASS
Band5	4132	NV	0	-1.52	-0.001839	±2.5	PASS
Band5	4132	NV	10	-1.74	-0.002106	±2.5	PASS
Band5	4132	NV	20	-1.85	-0.002239	±2.5	PASS
Band5	4132	NV	30	-2.15	-0.002602	±2.5	PASS
Band5	4132	NV	40	-1.55	-0.001876	±2.5	PASS
Band5	4132	NV	50	-1.39	-0.001682	±2.5	PASS
Band5	4183	NV	-30	-0.75	-0.000896	±2.5	PASS
Band5	4183	NV	-20	-1.19	-0.001422	±2.5	PASS
Band5	4183	NV	-10	-1.17	-0.001399	±2.5	PASS
Band5	4183	NV	0	-1.01	-0.001207	±2.5	PASS
Band5	4183	NV	10	-0.97	-0.001159	±2.5	PASS
Band5	4183	NV	20	-0.48	-0.000574	±2.5	PASS
Band5	4183	NV	30	-0.19	-0.000227	±2.5	PASS
Band5	4183	NV	40	-0.59	-0.000705	±2.5	PASS
Band5	4183	NV	50	-0.94	-0.001124	±2.5	PASS
Band5	4233	NV	-30	1.57	0.001854	±2.5	PASS
Band5	4233	NV	-20	0.99	0.001169	±2.5	PASS
Band5	4233	NV	-10	1.30	0.001536	±2.5	PASS

Band5	4233	NV	0	1.24	0.001465	±2.5	PASS
Band5	4233	NV	10	1.50	0.001772	±2.5	PASS
Band5	4233	NV	20	0.18	0.000213	±2.5	PASS
Band5	4233	NV	30	0.82	0.000969	±2.5	PASS
Band5	4233	NV	40	1.20	0.001417	±2.5	PASS
Band5	4233	NV	50	1.72	0.002032	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band5	4132	PASS	PASS
Band5	4182	PASS	PASS
Band5	4183	PASS	PASS
Band5	4233	PASS	PASS

Test Graphs

