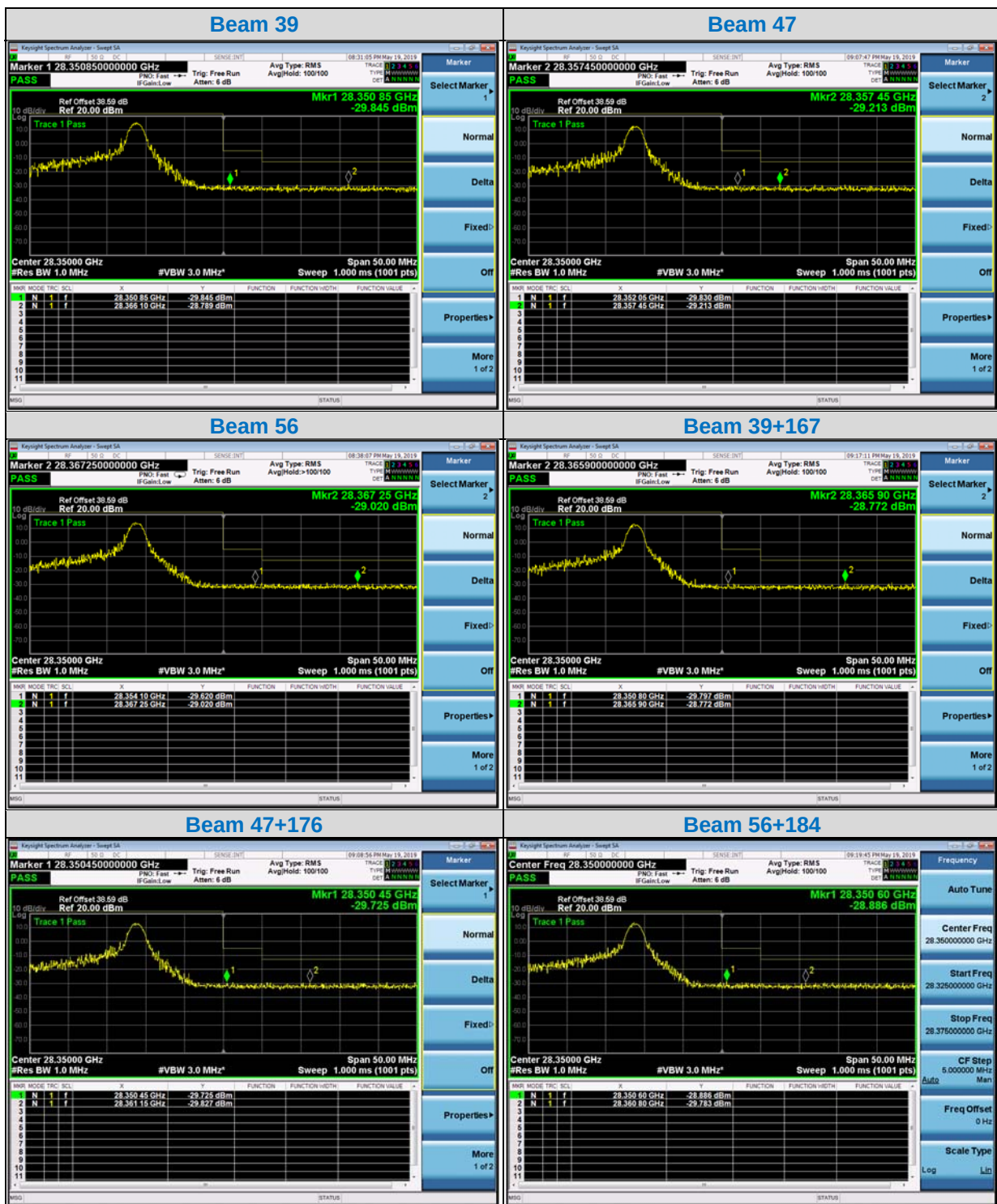


Highest-edge

Band		n261		Component Carriers		1CC	
Modulation		QPSK		RB		1RB65	
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
39	28.35085	-20.005	9.84	-29.845	-5	-24.845	Pass
	28.36610	-18.949	9.84	-28.789	-13	-15.789	Pass
47	28.35205	-19.990	9.84	-29.830	-5	-24.830	Pass
	28.35745	-19.373	9.84	-29.213	-13	-16.213	Pass
56	28.35410	-19.780	9.84	-29.620	-5	-24.620	Pass
	28.36725	-19.180	9.84	-29.020	-13	-16.020	Pass
39+167	28.35080	-19.957	9.84	-29.797	-5	-24.797	Pass
	28.36590	-18.932	9.84	-28.772	-13	-15.772	Pass
47+176	28.35045	-19.885	9.84	-29.725	-5	-24.725	Pass
	28.36115	-19.987	9.84	-29.827	-13	-16.827	Pass
56+184	28.35060	-19.045	9.84	-28.885	-5	-23.885	Pass
	28.36080	-19.943	9.84	-29.783	-13	-16.783	Pass

Note: The Conducted Power = EIRP-Array Gain



Highest-edge

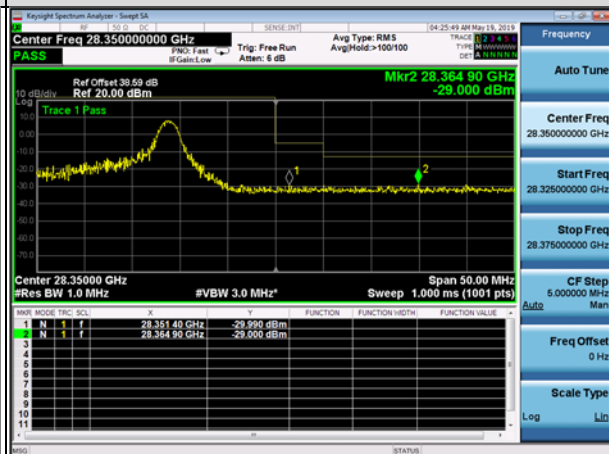
Band		n261		Component Carriers		2CC	
Modulation		QPSK		RB		1RB65	
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
39	28.35190	-20.220	9.84	-30.060	-5	-25.060	Pass
	28.37120	-17.585	9.84	-27.425	-13	-14.425	Pass
47	28.35140	-20.150	9.84	-29.990	-5	-24.990	Pass
	28.36490	-19.160	9.84	-29.000	-13	-16.000	Pass
56	28.35375	-20.201	9.84	-30.041	-5	-25.041	Pass
	28.36995	-19.186	9.84	-29.026	-13	-16.026	Pass
39+167	28.35330	-19.838	9.84	-29.678	-5	-24.678	Pass
	28.36645	-19.915	9.84	-29.755	-13	-16.755	Pass
47+176	28.35440	-20.160	9.84	-30.000	-5	-25.000	Pass
	28.36615	-19.611	9.84	-29.451	-13	-16.451	Pass
56+184	28.35145	-20.016	9.84	-29.856	-5	-24.856	Pass
	28.36380	-19.568	9.84	-29.408	-13	-16.408	Pass

Note: The Conducted Power = EIRP-Array Gain

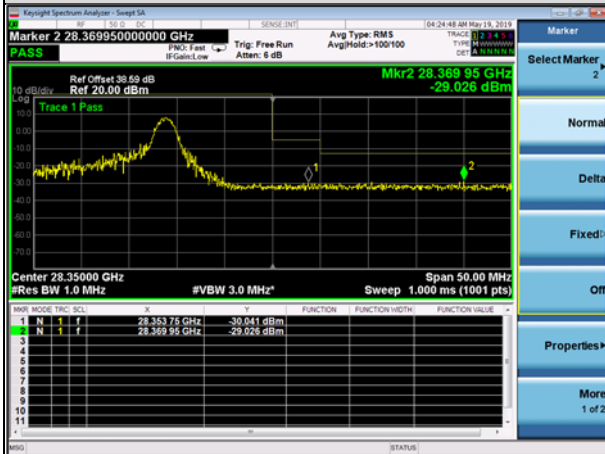
Beam 39



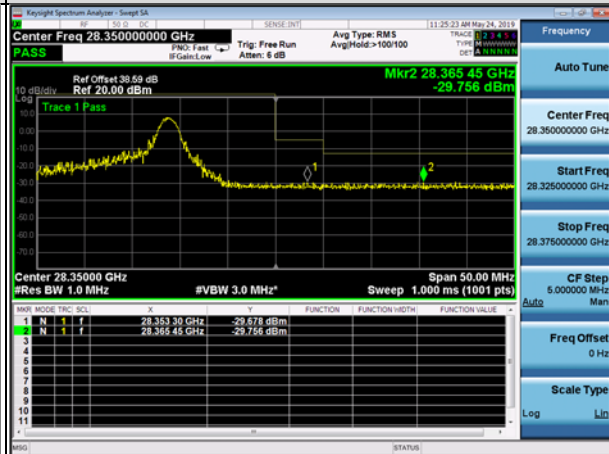
Beam 47



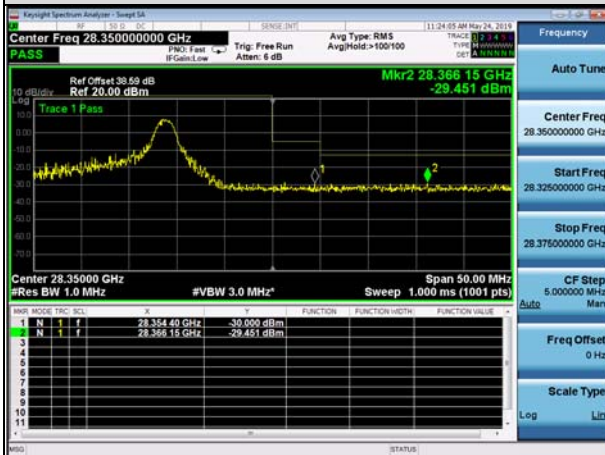
Beam 56



Beam 39+167



Beam 47+176



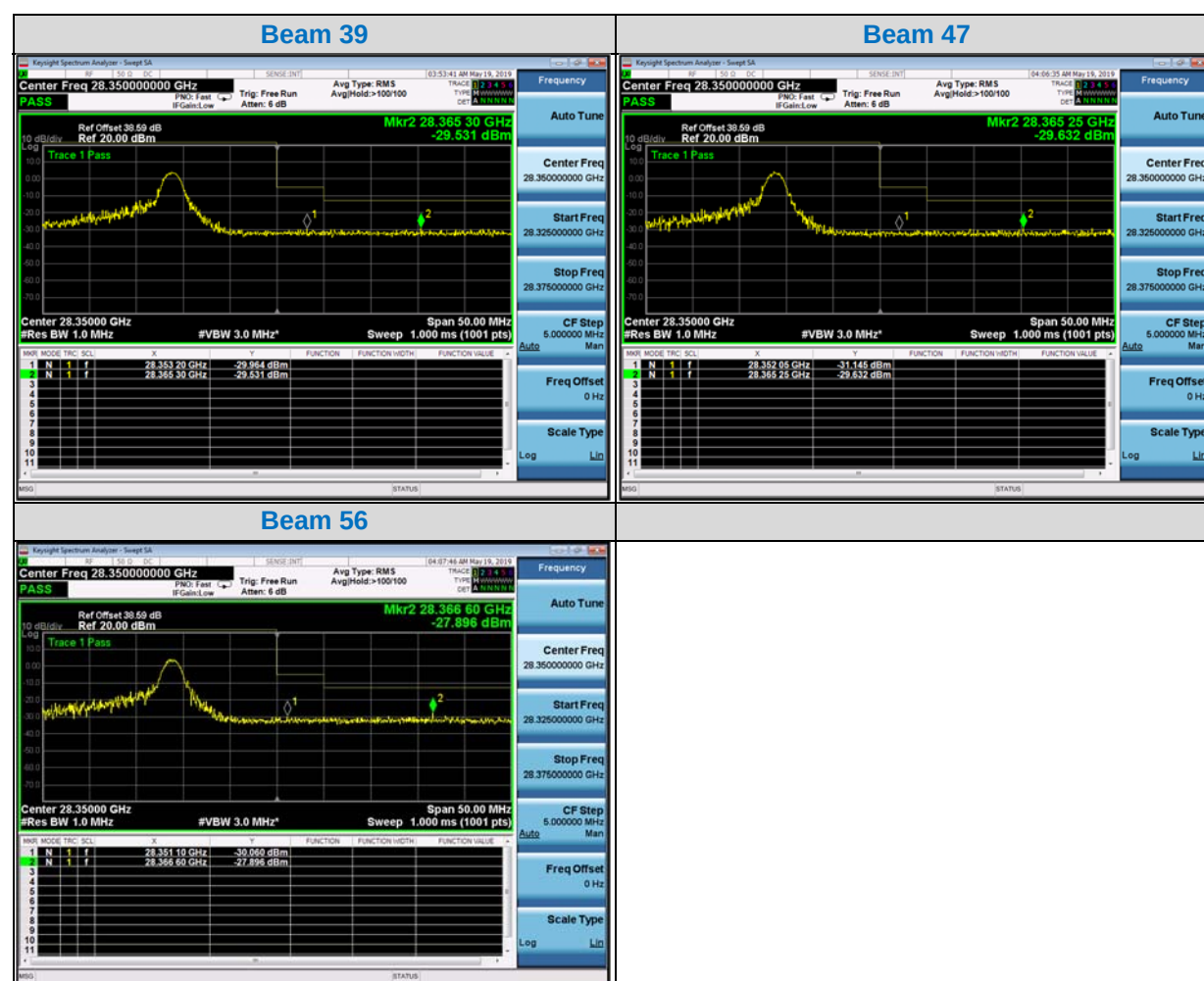
Beam 56+184



Highest-edge

Band		n261		Component Carriers		4CC	
Modulation		QPSK		RB		1RB65	
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
39	28.35320	-20.1240	9.84	-29.964	-5	-24.964	Pass
	28.36530	-19.6910	9.84	-29.531	-13	-16.531	Pass
47	28.35205	-21.3050	9.84	-31.145	-5	-26.145	Pass
	28.36525	-19.7920	9.84	-29.632	-13	-16.632	Pass
56	28.35110	-20.2200	9.84	-30.060	-5	-25.060	Pass
	28.36660	-18.0560	9.84	-27.896	-13	-14.896	Pass

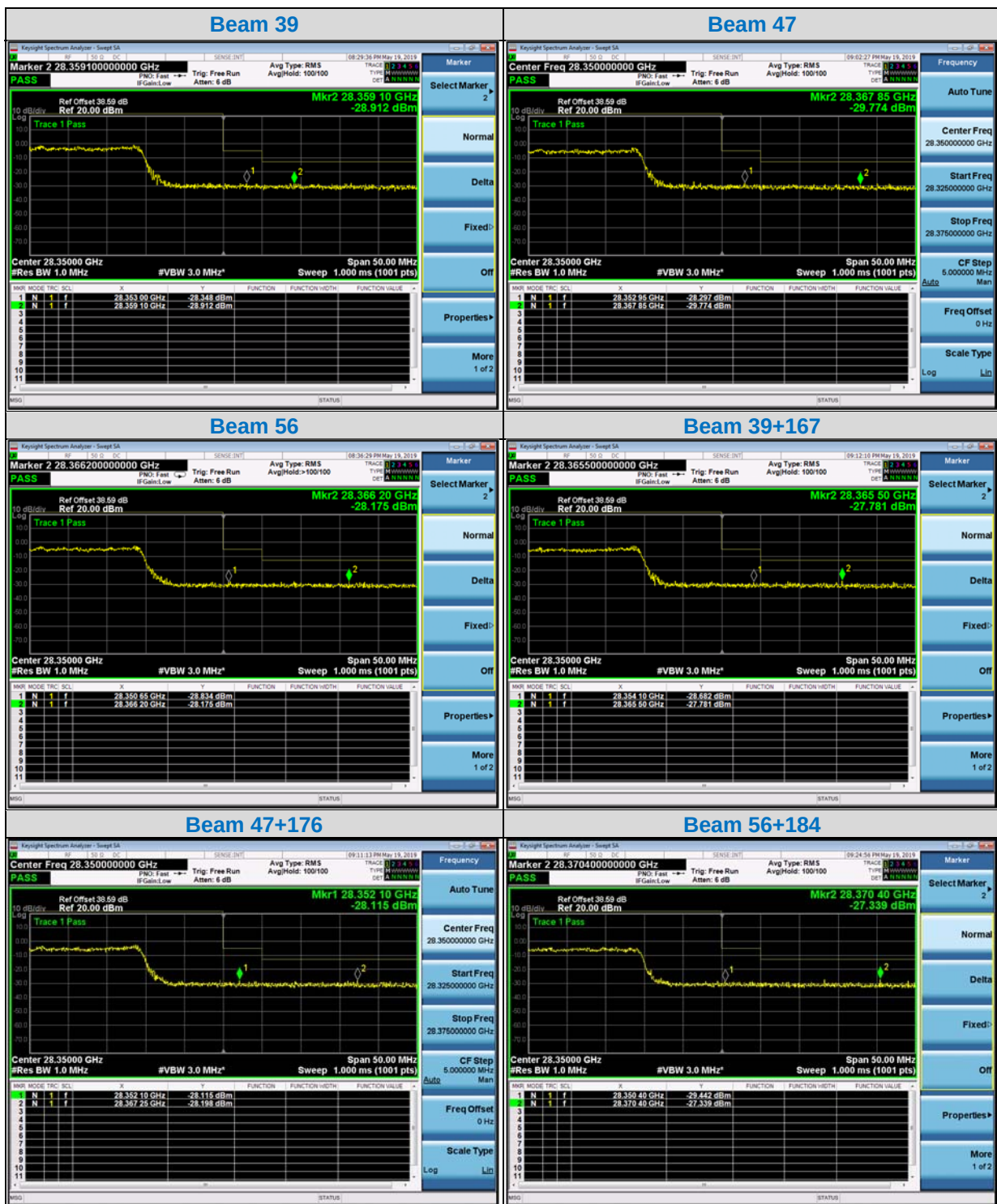
Note: The Conducted Power = EIRP-Array Gain



Highest-edge

BAND		n261		Component Carriers		1CC	
MODULATION		QPSK		RB		66RB	
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
39	28.35300	-18.508	9.84	-28.348	-5	-23.348	Pass
	28.35910	-19.072	9.84	-28.912	-13	-15.912	Pass
47	28.35295	-18.457	9.84	-28.297	-5	-23.297	Pass
	28.36785	-19.934	9.84	-29.774	-13	-16.774	Pass
56	28.35065	-18.994	9.84	-28.834	-5	-23.834	Pass
	28.36620	-18.335	9.84	-28.175	-13	-15.175	Pass
39+167	28.35410	-18.842	9.84	-28.682	-5	-23.682	Pass
	28.36550	-17.941	9.84	-27.781	-13	-14.781	Pass
47+176	28.35210	-18.275	9.84	-28.115	-5	-23.115	Pass
	28.36725	-18.358	9.84	-28.198	-13	-15.198	Pass
56+184	28.35040	-19.602	9.84	-29.442	-5	-24.442	Pass
	28.37040	-17.499	9.84	-27.339	-13	-14.339	Pass

Note: The Conducted Power = EIRP-Array Gain



Highest-edge

BAND		n261		Component Carriers		2CC	
MODULATION		QPSK		RB		66RB	
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
39	28.35205	-20.129	9.84	-29.969	-5	-24.969	Pass
	28.37340	-18.835	9.84	-28.675	-13	-15.675	Pass
47	28.35115	-19.479	9.84	-29.319	-5	-24.319	Pass
	28.36235	-18.971	9.84	-28.811	-13	-15.811	Pass
56	28.35190	-18.758	9.84	-28.598	-5	-23.598	Pass
	28.35900	-19.067	9.84	-28.907	-13	-15.907	Pass
39+167	28.35425	-18.435	9.84	-28.275	-5	-23.275	Pass
	28.35740	-18.444	9.84	-28.284	-13	-15.284	Pass
47+176	28.35145	-17.451	9.84	-27.291	-5	-22.291	Pass
	28.36145	-19.067	9.84	-28.907	-13	-15.907	Pass
56+184	28.35030	-18.788	9.84	-28.628	-5	-23.628	Pass
	28.36455	-18.147	9.84	-27.987	-13	-14.987	Pass

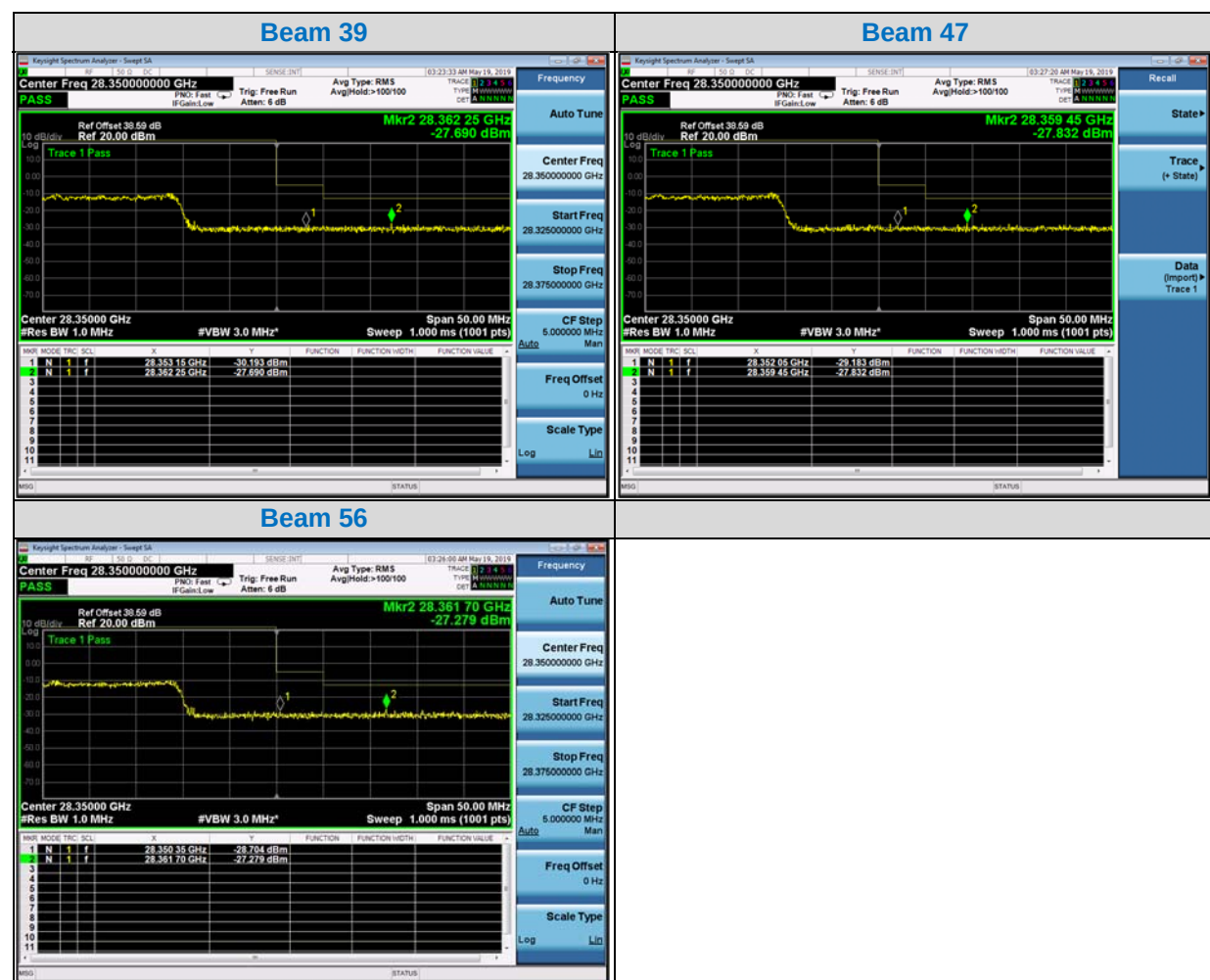
Note: The Conducted Power = EIRP-Array Gain



Highest-edge

BAND		n261		Component Carriers		4CC	
MODULATION		QPSK		RB		66RB	
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
39	28.35315	-20.353	9.84	-30.193	-5	-25.193	Pass
	28.36225	-17.850	9.84	-27.690	-13	-14.690	Pass
47	28.35205	-19.343	9.84	-29.183	-5	-24.183	Pass
	28.35945	-17.992	9.84	-27.832	-13	-14.832	Pass
56	28.35035	-18.864	9.84	-28.704	-5	-23.704	Pass
	28.36170	-17.439	9.84	-27.279	-13	-14.279	Pass

Note: The Conducted Power = EIRP-Array Gain



4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

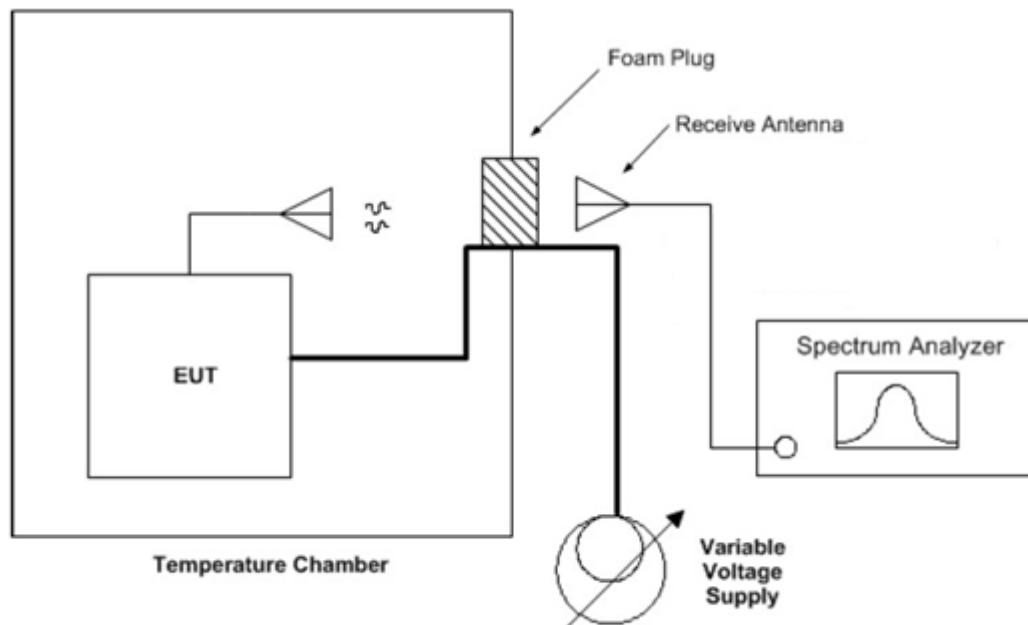
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band.

4.6.2 Test Procedure

- b. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- c. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- d. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded from the communication simulator.

4.6.3 Test Setup



4.6.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	Band: n260		
	Modulation :CW / Frequency : 38849.9		
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail
13.2	38849.890000	0.2574	Pass
12.0	38849.880000	0.0000	Pass
10.80	38849.880000	0.0000	Pass

Frequency Error vs. Voltage

Voltage (Volts)	Band: n261		
	Modulation :CW / Frequency : 27923.52		
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail
13.2	27923.530000	0.3581	Pass
12.0	27923.520000	0.0000	Pass
10.80	27923.540000	0.7162	Pass

Frequency Error vs. Temperature

Temp. (°C)	Band: n260		
	Modulation :CW / Frequency : 38849.9		
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail
-30	38849.710000	-4.3758	Pass
-20	38849.680000	-5.1480	Pass
-10	38849.740000	-3.6036	Pass
0	38849.760000	-3.0888	Pass
10	38849.830000	-1.2870	Pass
20	38849.920000	1.0296	Pass
30	38849.720000	-4.1184	Pass
40	38849.890000	0.2574	Pass
50	38849.960000	2.0592	Pass
55	38849.880000	0.0000	Pass

Frequency Error vs. Temperature

Temp. (°C)	Band: n261		
	Modulation :CW / Frequency : 27923.52		
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail
-30	27923.720000	7.1624	Pass
-20	27923.730000	7.5205	Pass
-10	27923.690000	6.0881	Pass
0	27923.680000	5.7299	Pass
10	27923.630000	3.9393	Pass
20	27923.590000	2.5068	Pass
30	27923.510000	-0.3581	Pass
40	27923.410000	-3.9393	Pass
50	27923.310000	-7.5205	Pass
55	27923.290000	-8.2368	Pass

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

FCC accreditation scope:

Web Site:

https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeOut=500®num_specified=N&test_firm_id=7635

Scope	FCC Rule Parts	Maximum Assessed Frequency in Mhz	Status	Expiration Date	Recognition Date
Intentional Radiators	FCC Part 15 Subpart C	300000.00	Approved	08-14-2019	07-06-2017
U-NII without DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-14-2019	07-06-2017
U-NII with DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-14-2019	07-06-2017
UWB Intentional Radiators	FCC Part 15, Subpart F	300000.00	Approved	08-14-2019	07-06-2017
BPL Intentional Radiators	FCC Part 15, Subpart G	300000.00	Approved	08-14-2019	07-06-2017
White Space Device Intentional Radiators	FCC Part 15, Subpart H	300000.00	Approved	08-14-2019	07-06-2017
Commercial Mobile Services	Part 22 (cellular), Part 24, Part 25 (below 3 GHz), Part 27	300000.00	Approved	08-14-2019	07-06-2017
General Mobile Radio Services	Part 22 (non-cellular), Part 90 (below 3 GHz), Part 95 (below 3 GHz), Part 97 (below 3 GHz), Part 101 (below 3 GHz)	300000.00	Approved	08-14-2019	07-06-2017
Citizens Broadband Radio Services	Part 96	300000.00	Approved	08-14-2019	07-06-2017
Maritime and Aviation Radio Services	Part 80, Part 87	300000.00	Approved	08-14-2019	07-06-2017
Microwave and Millimeter Bands Radio Services	Part 25, Part 30, Part 74, Part 90 (90M DSRC, Y, Z), Part 95 (M & L), Part 101	300000.00	Approved	08-14-2019	07-06-2017
RF Exposure		6000.00	Approved	08-14-2019	07-06-2017
Hearing Aid Compatibility	Part 20	6000.00	Approved	08-14-2019	07-06-2017
Signal Boosters	Part 20, Part 90.219	300000.00	Approved	08-14-2019	07-06-2017

If you have any comments, please feel free to contact us at the following:

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Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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