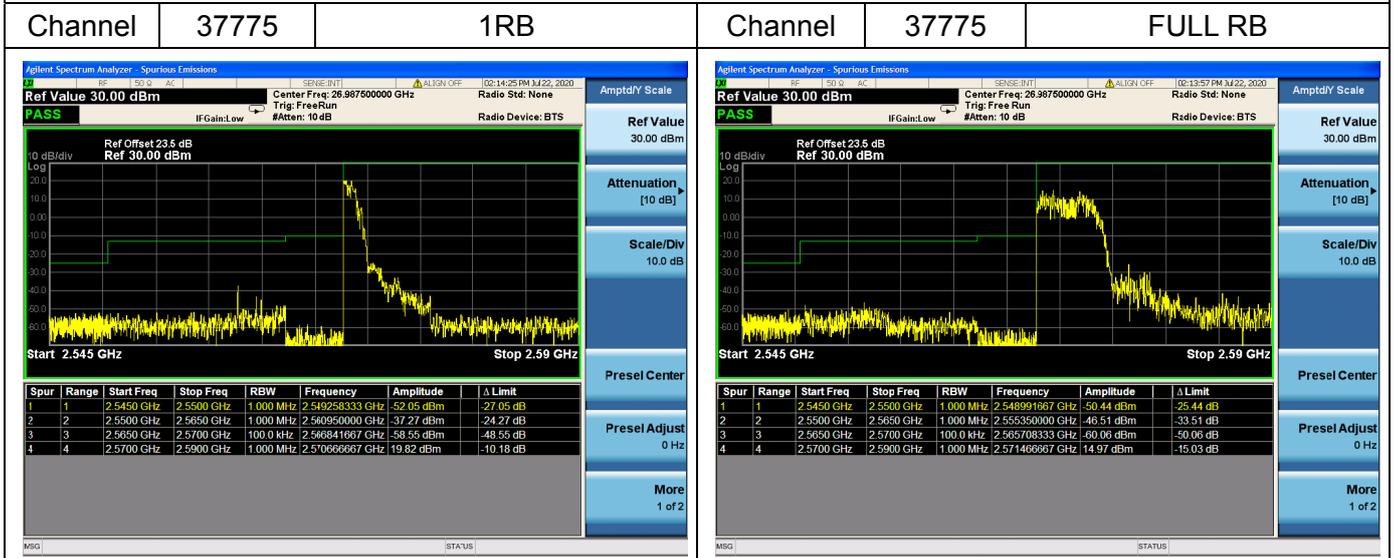


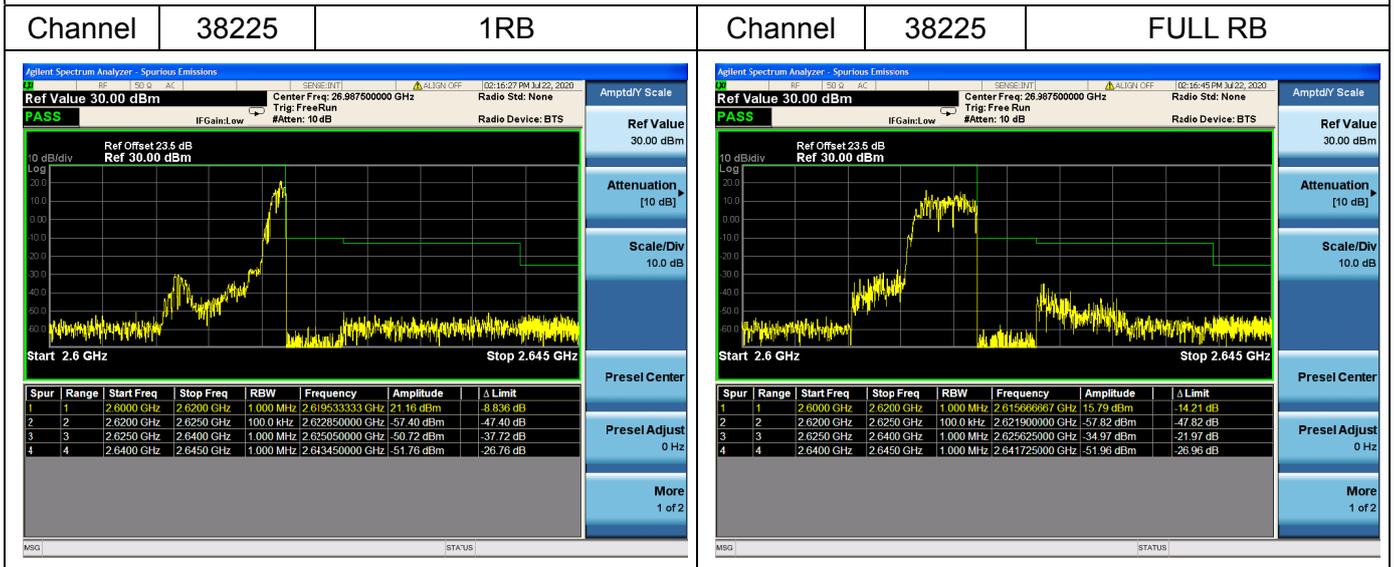


LTE Band 38

Channel Bandwidth: 5MHz



Channel Bandwidth: 5MHz





LTE Band 38

Channel Bandwidth: 10MHz

Channel	37800	1RB	Channel	37800	FULL RB
---------	-------	-----	---------	-------	---------

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5450 GHz	2.5500 GHz	1.000 MHz	2.545466667 GHz	-51.45 dBm	-26.45 dB
2	2	2.5500 GHz	2.5650 GHz	1.000 MHz	2.563150000 GHz	-28.09 dBm	-15.09 dB
3	3	2.5650 GHz	2.5700 GHz	200.0 kHz	2.568750000 GHz	-50.27 dBm	-46.27 dB
4	4	2.5700 GHz	2.5900 GHz	1.000 MHz	2.570333333 GHz	-20.03 dBm	-9.96 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5450 GHz	2.5500 GHz	1.000 MHz	2.548683333 GHz	-51.11 dBm	-26.11 dB
2	2	2.5500 GHz	2.5650 GHz	1.000 MHz	2.563000000 GHz	-50.40 dBm	-37.40 dB
3	3	2.5650 GHz	2.5700 GHz	200.0 kHz	2.568475000 GHz	-56.34 dBm	-46.34 dB
4	4	2.5700 GHz	2.5900 GHz	1.000 MHz	2.574066667 GHz	-11.24 dBm	-18.76 dB

Channel Bandwidth: 10MHz

Channel	38200	1RB	Channel	38200	FULL RB
---------	-------	-----	---------	-------	---------

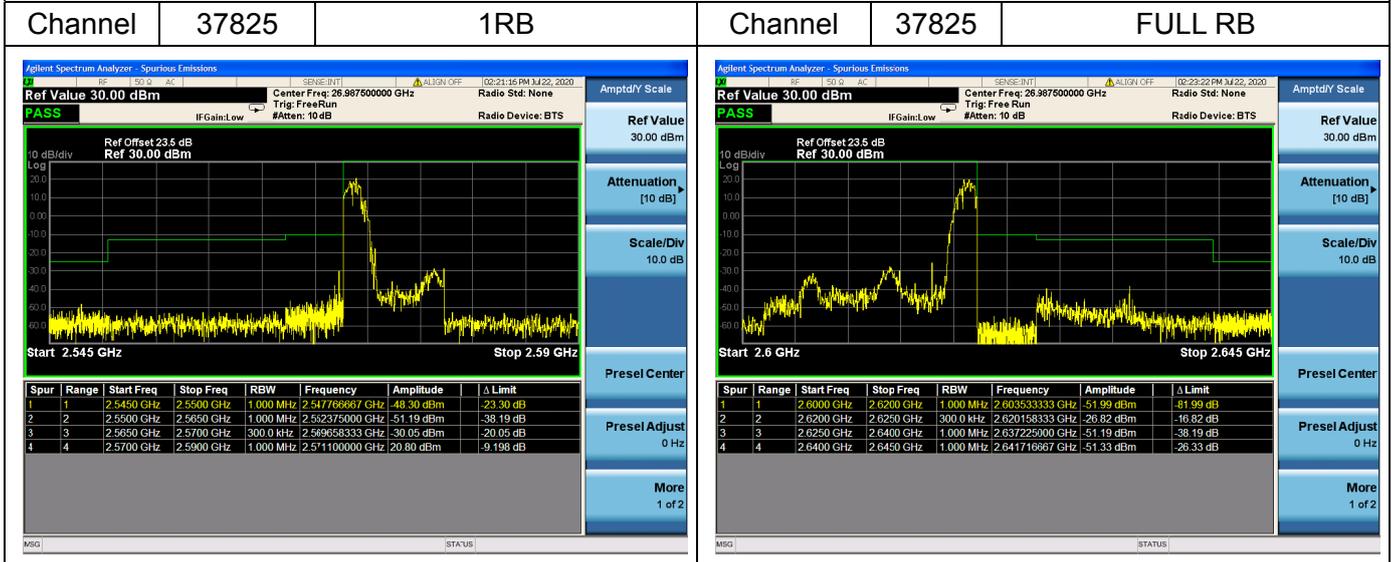
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6000 GHz	2.6200 GHz	1.000 MHz	2.619766667 GHz	-22.59 dBm	-7.41 dB
2	2	2.6200 GHz	2.6250 GHz	200.0 kHz	2.620350000 GHz	-24.35 dBm	-14.35 dB
3	3	2.6250 GHz	2.6400 GHz	1.000 MHz	2.636750000 GHz	-33.25 dBm	-20.25 dB
4	4	2.6400 GHz	2.6450 GHz	1.000 MHz	2.643808333 GHz	-47.95 dBm	-22.95 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6000 GHz	2.6200 GHz	1.000 MHz	2.617000000 GHz	-16.32 dBm	-13.68 dB
2	2	2.6200 GHz	2.6250 GHz	200.0 kHz	2.620783333 GHz	-53.63 dBm	-43.63 dB
3	3	2.6250 GHz	2.6400 GHz	1.000 MHz	2.625350000 GHz	-24.92 dBm	-11.92 dB
4	4	2.6400 GHz	2.6450 GHz	1.000 MHz	2.643050000 GHz	-43.45 dBm	-18.45 dB

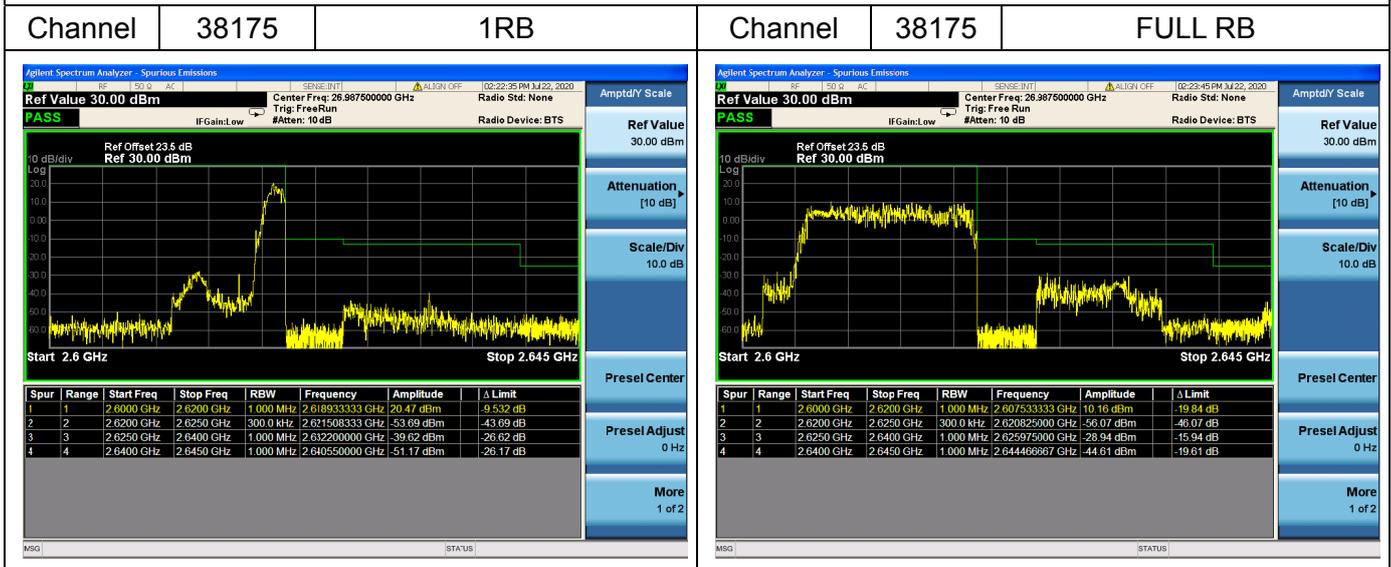


LTE Band 38

Channel Bandwidth: 15MHz



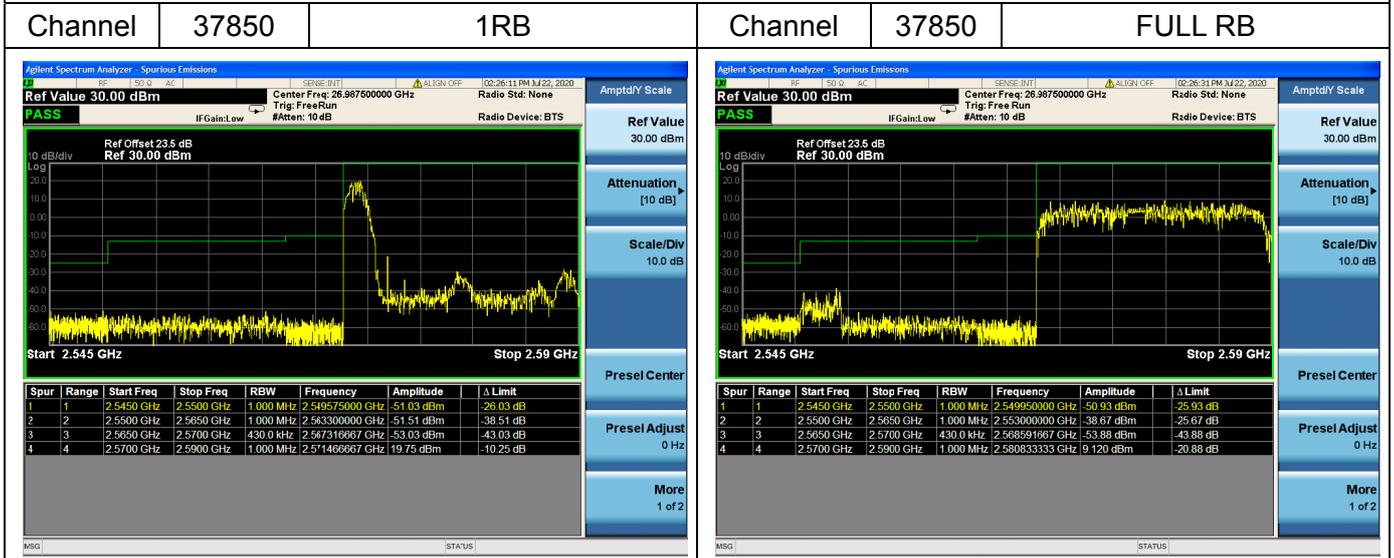
Channel Bandwidth: 15MHz



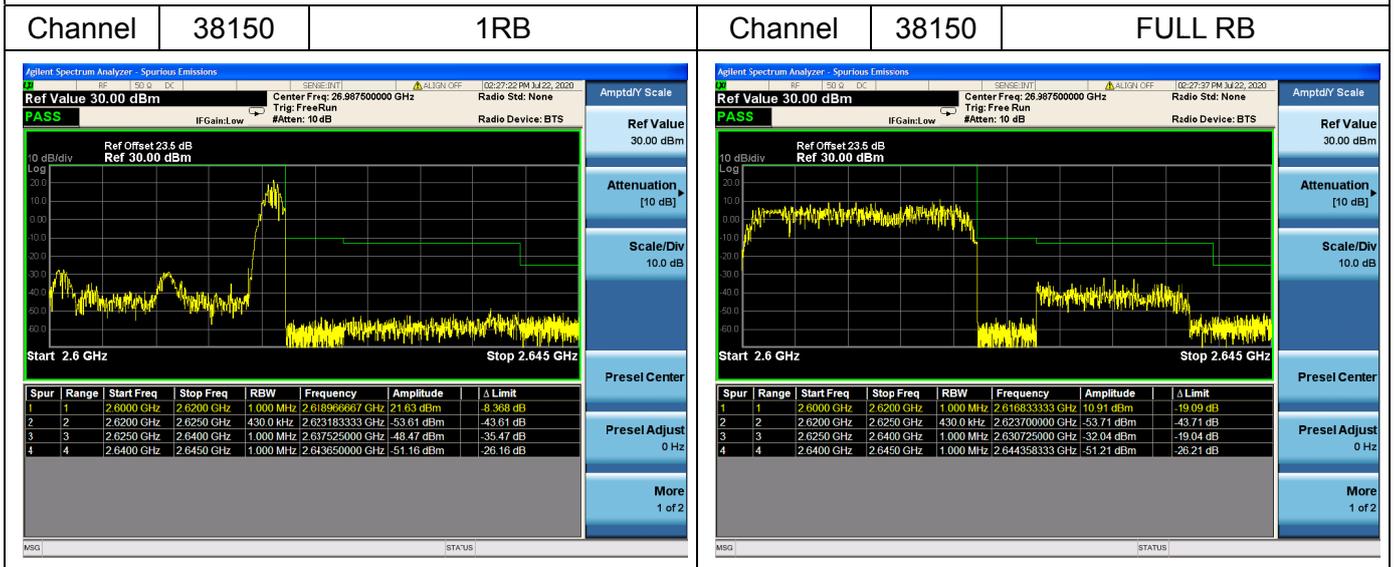


LTE Band 38

Channel Bandwidth: 20MHz



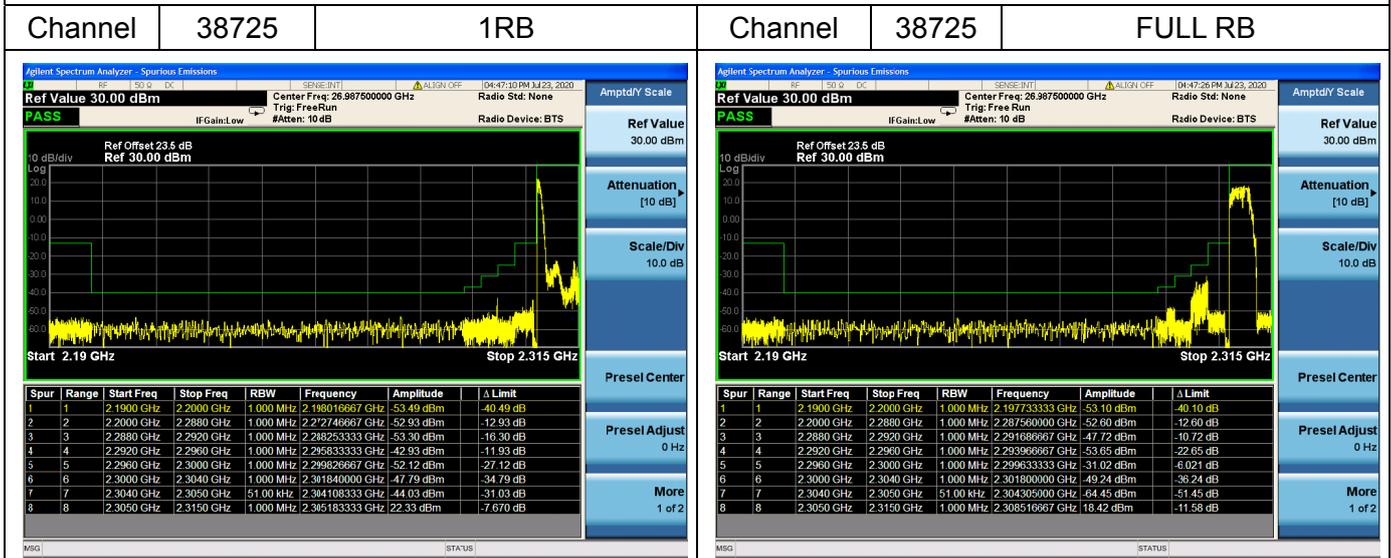
Channel Bandwidth: 20MHz



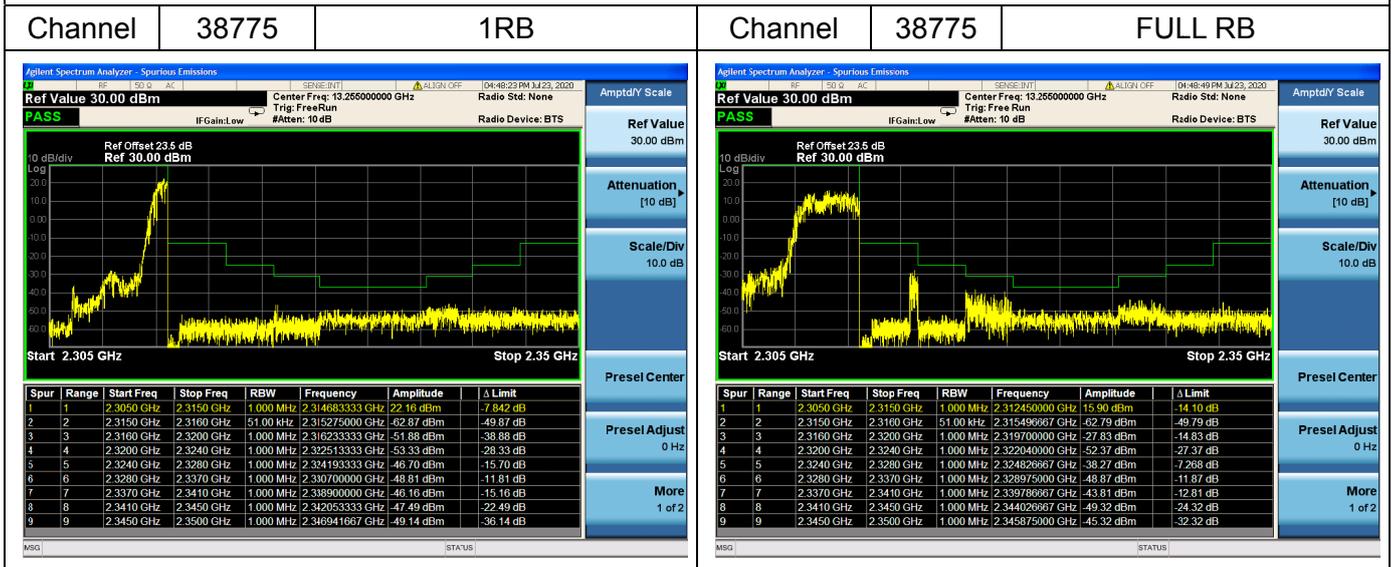


LTE Band 40 (2305MHz ~ 2315MHz)

Channel Bandwidth: 5MHz



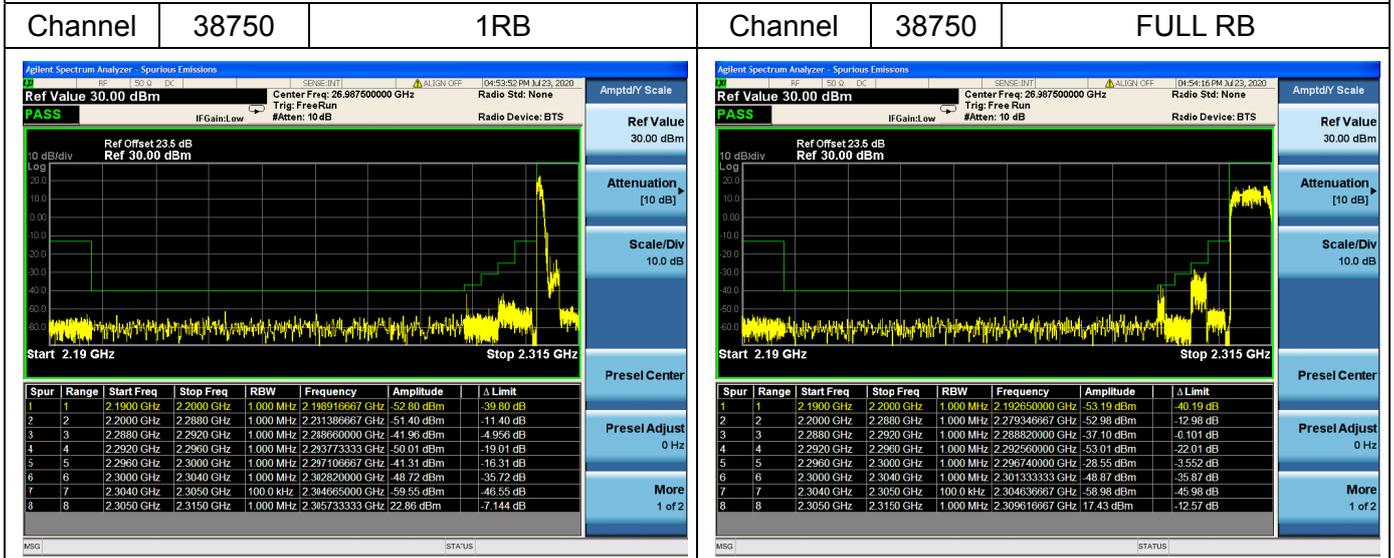
Channel Bandwidth: 5MHz



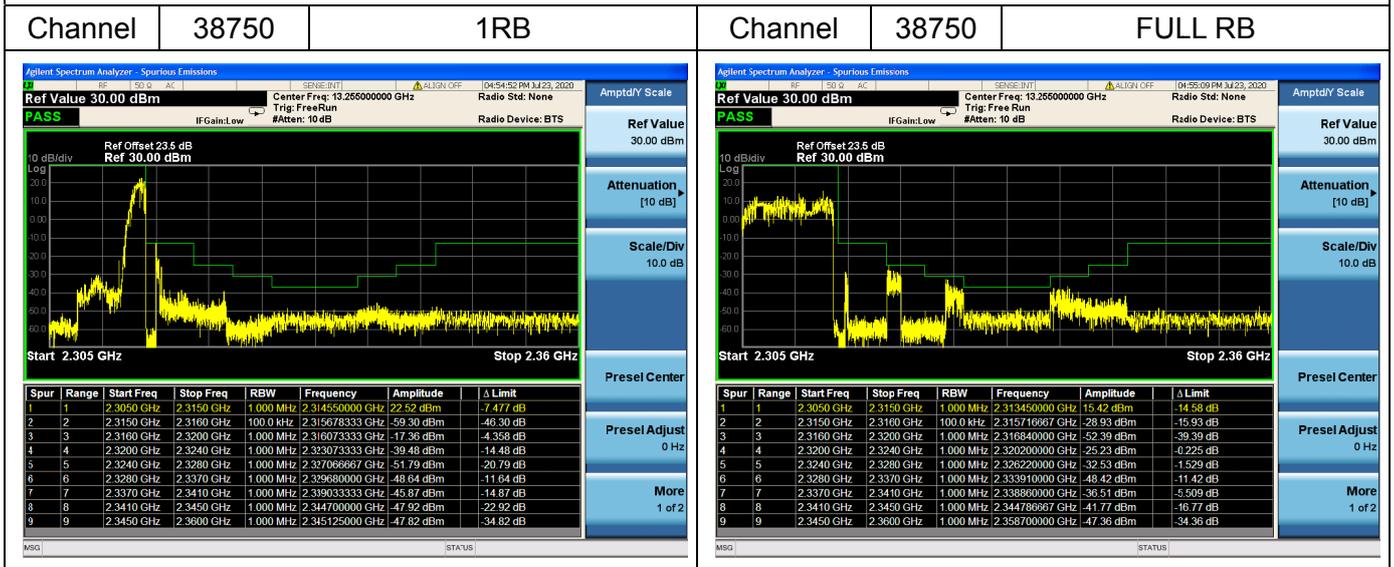


LTE Band 40 (2305MHz ~ 2315MHz)

Channel Bandwidth: 10MHz



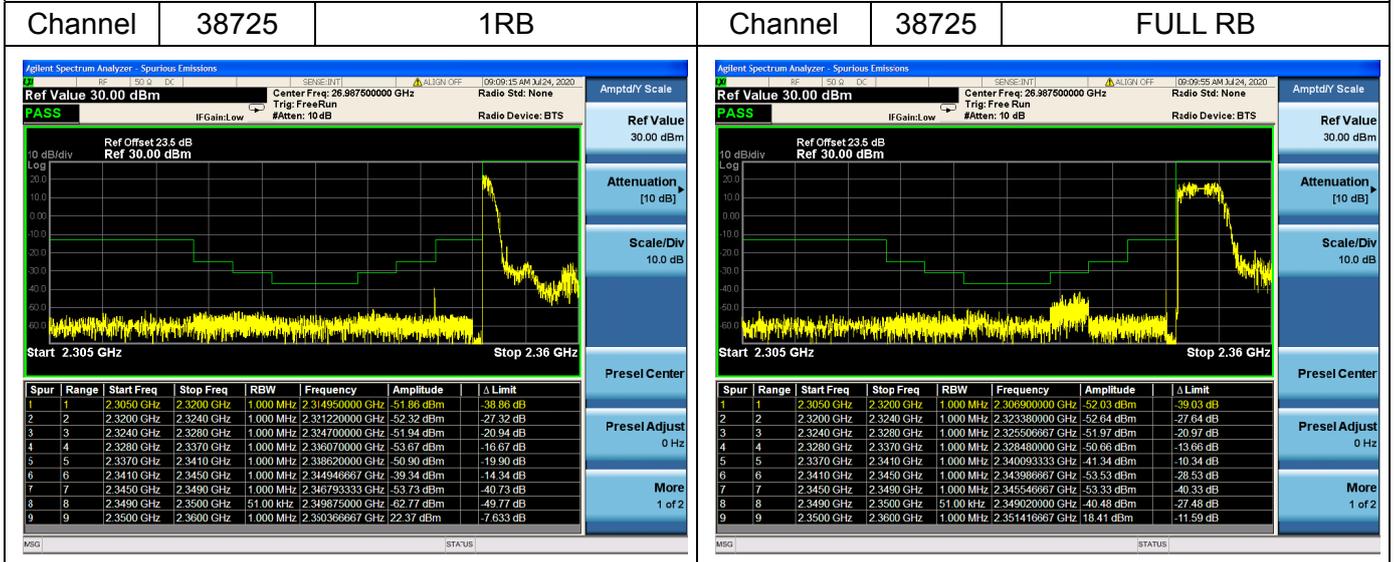
Channel Bandwidth: 10MHz



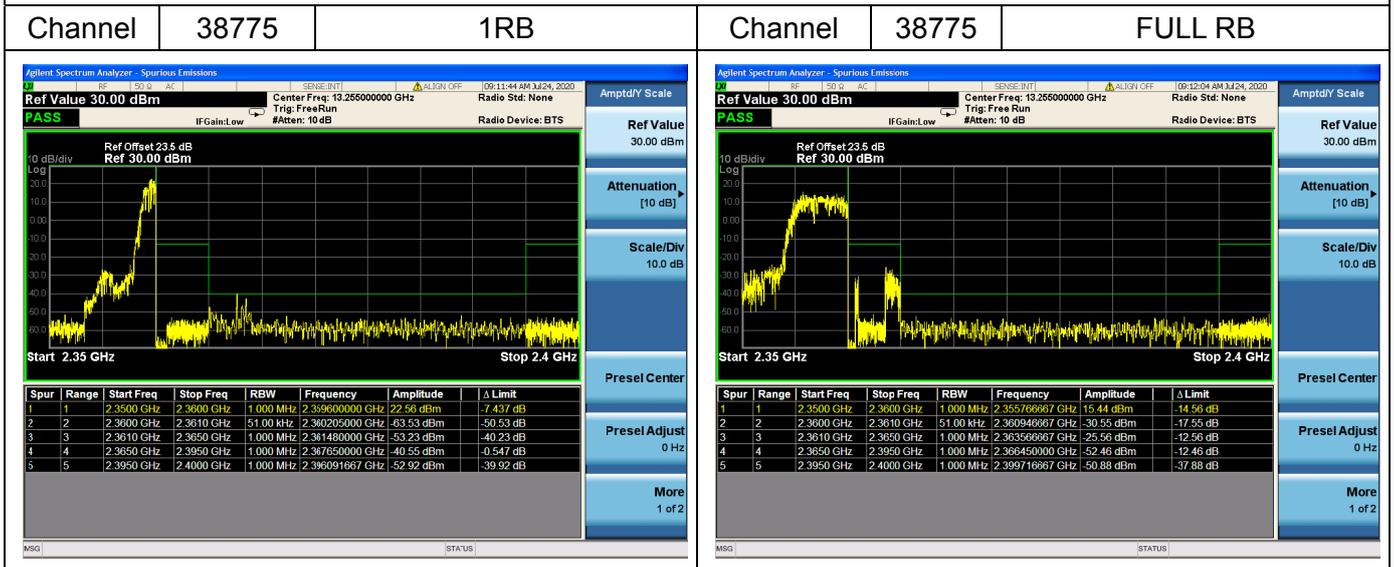


LTE Band 40 (2350MHz ~ 2360MHz)

Channel Bandwidth: 5MHz



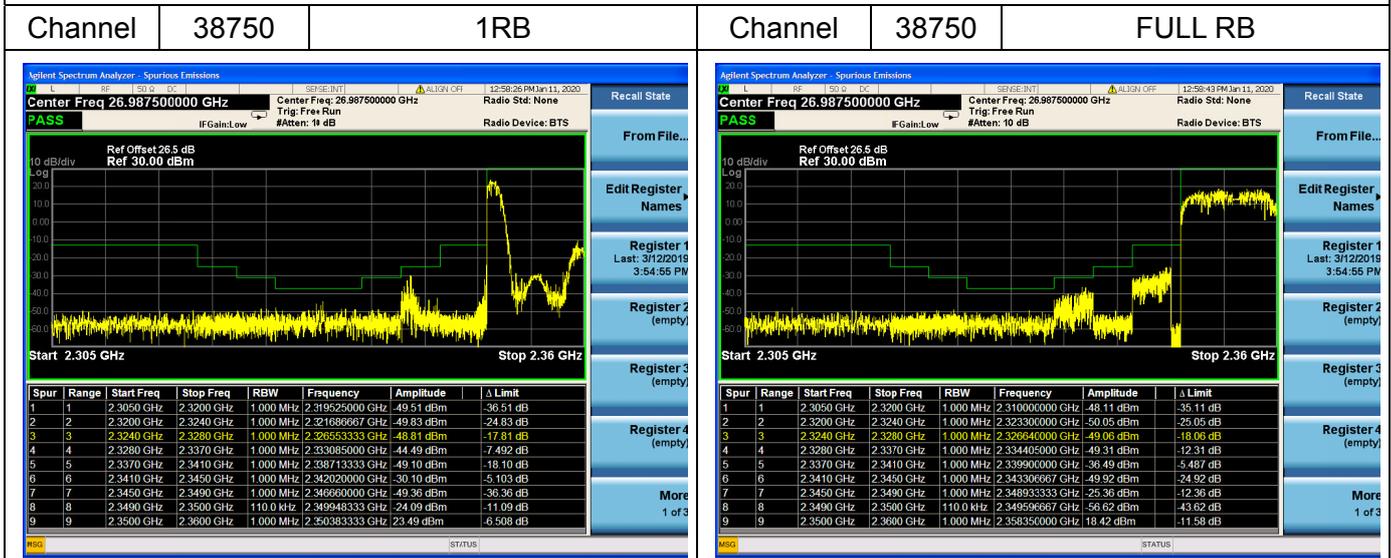
Channel Bandwidth: 5MHz



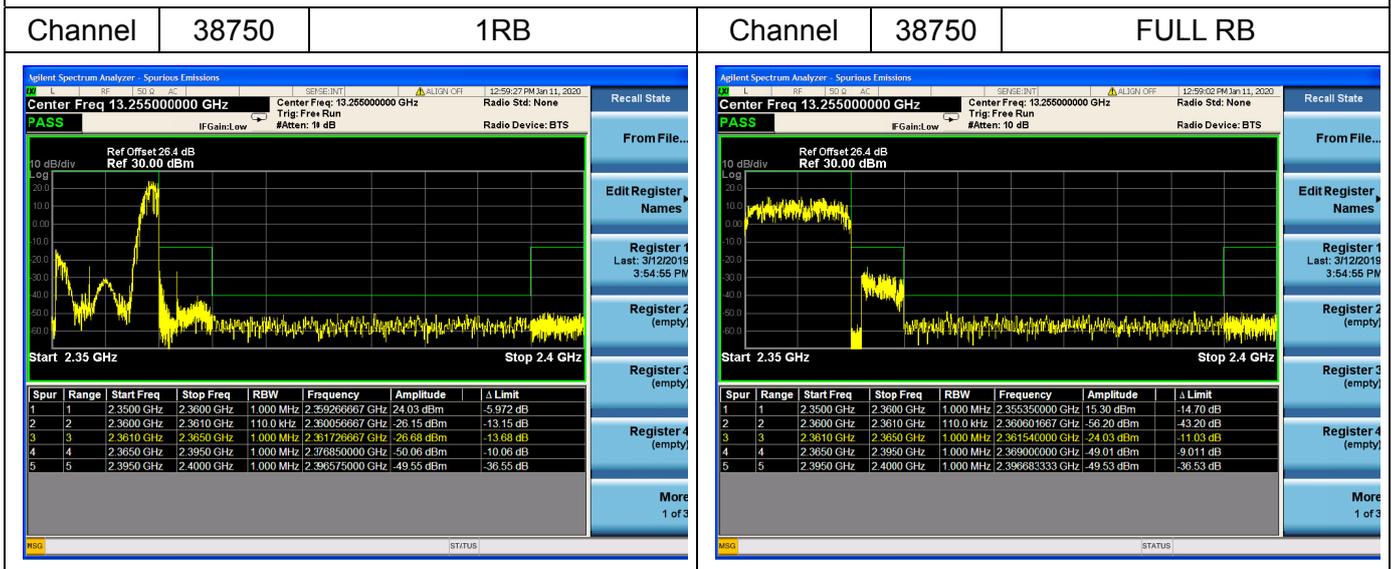


LTE Band 40 (2350MHz ~ 2360MHz)

Channel Bandwidth: 10MHz



Channel Bandwidth: 10MHz





LTE Band 41

Channel Bandwidth: 5MHz

Channel	40065	1RB		Channel	40065	FULL RB
---------	-------	-----	--	---------	-------	---------

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.486000000 GHz	-55.41 dBm	-30.41 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.491600000 GHz	-54.35 dBm	-41.35 dB
3	3	2.4950 GHz	2.4980 GHz	51.00 kHz	2.495736667 GHz	-59.65 dBm	-59.65 dB
4	4	2.4960 GHz	2.5010 GHz	1.000 MHz	2.496733333 GHz	-55.11 dBm	-85.11 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.479675000 GHz	-55.24 dBm	-30.24 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.492633333 GHz	-54.65 dBm	-41.65 dB
3	3	2.4950 GHz	2.4980 GHz	51.00 kHz	2.495598333 GHz	-70.36 dBm	-77.36 dB
4	4	2.4960 GHz	2.5010 GHz	1.000 MHz	2.496991669 GHz	-54.84 dBm	-84.84 dB

Channel Bandwidth: 5MHz

Channel	41215	1RB		Channel	41215	FULL RB
---------	-------	-----	--	---------	-------	---------

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6850 GHz	2.6900 GHz	1.000 MHz	2.686508333 GHz	-55.79 dBm	-85.79 dB
2	2	2.6900 GHz	2.6910 GHz	100.0 kHz	2.690265000 GHz	-66.90 dBm	-56.90 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.694806667 GHz	-56.45 dBm	-46.45 dB
4	4	2.6950 GHz	2.6960 GHz	1.000 MHz	2.695926667 GHz	-55.26 dBm	-42.26 dB
5	5	2.6960 GHz	2.7150 GHz	1.000 MHz	2.708223333 GHz	-61.51 dBm	-36.51 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6850 GHz	2.6900 GHz	1.000 MHz	2.685175000 GHz	-55.40 dBm	-85.40 dB
2	2	2.6900 GHz	2.6910 GHz	100.0 kHz	2.690868333 GHz	-68.12 dBm	-58.12 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.693466667 GHz	-56.08 dBm	-46.08 dB
4	4	2.6950 GHz	2.6960 GHz	1.000 MHz	2.695648333 GHz	-55.09 dBm	-42.09 dB
5	5	2.6960 GHz	2.7150 GHz	1.000 MHz	2.705468333 GHz	-61.99 dBm	-36.99 dB



LTE Band 41

Channel Bandwidth: 10MHz

Channel	40090	1RB		Channel	40090	FULL RB	
---------	-------	-----	--	---------	-------	---------	--

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.489200000 GHz	-53.69 dBm	-29.79 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.492625000 GHz	-36.45 dBm	-43.45 dB
3	3	2.4950 GHz	2.4980 GHz	51.000 kHz	2.495195000 GHz	-59.89 dBm	-53.89 dB
4	4	2.4980 GHz	2.5060 GHz	100.0 kHz	2.517000000 GHz	-66.84 dBm	-96.84 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.484575000 GHz	-56.35 dBm	-31.35 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.491750000 GHz	-54.06 dBm	-41.06 dB
3	3	2.4950 GHz	2.4980 GHz	51.000 kHz	2.495200000 GHz	-71.51 dBm	-59.51 dB
4	4	2.4980 GHz	2.5060 GHz	100.0 kHz	2.497750000 GHz	-66.84 dBm	-96.84 dB

Channel Bandwidth: 10MHz

Channel	41190	1RB		Channel	41190	FULL RB	
---------	-------	-----	--	---------	-------	---------	--

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6800 GHz	2.6900 GHz	100.0 kHz	2.681550000 GHz	-68.07 dBm	-98.07 dB
2	2	2.6900 GHz	2.6910 GHz	200.0 kHz	2.690360000 GHz	-62.93 dBm	-52.93 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.692693333 GHz	-56.45 dBm	-46.45 dB
4	4	2.6950 GHz	2.7000 GHz	1.000 MHz	2.699491667 GHz	-55.30 dBm	-42.30 dB
5	5	2.7000 GHz	2.7150 GHz	1.000 MHz	2.713700000 GHz	-59.85 dBm	-34.85 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6800 GHz	2.6900 GHz	100.0 kHz	2.681550000 GHz	-68.07 dBm	-98.07 dB
2	2	2.6900 GHz	2.6910 GHz	200.0 kHz	2.690360000 GHz	-62.93 dBm	-52.93 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.692693333 GHz	-56.45 dBm	-46.45 dB
4	4	2.6950 GHz	2.7000 GHz	1.000 MHz	2.699491667 GHz	-55.30 dBm	-42.30 dB
5	5	2.7000 GHz	2.7150 GHz	1.000 MHz	2.713700000 GHz	-59.85 dBm	-34.85 dB



LTE Band 41

Channel Bandwidth: 15MHz

<b>Channel</b>	<b>40115</b>	<b>1RB</b>		<b>Channel</b>	<b>40115</b>	<b>FULL RB</b>
----------------	--------------	------------	--	----------------	--------------	----------------

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.483575000 GHz	-54.28 dBm	-29.28 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.493050000 GHz	-55.74 dBm	-42.74 dB
3	3	2.4950 GHz	2.4980 GHz	150.0 kHz	2.495941667 GHz	-63.82 dBm	-50.82 dB
4	4	2.4980 GHz	2.5110 GHz	1.000 MHz	2.509975000 GHz	-56.16 dBm	-86.16 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.481925000 GHz	-53.78 dBm	-28.78 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.493675000 GHz	-57.03 dBm	-44.03 dB
3	3	2.4950 GHz	2.4960 GHz	150.0 kHz	2.495555000 GHz	-63.81 dBm	-50.81 dB
4	4	2.4960 GHz	2.5110 GHz	1.000 MHz	2.510750000 GHz	-48.23 dBm	-78.23 dB

Channel Bandwidth: 15MHz

<b>Channel</b>	<b>41165</b>	<b>1RB</b>		<b>Channel</b>	<b>41165</b>	<b>FULL RB</b>
----------------	--------------	------------	--	----------------	--------------	----------------

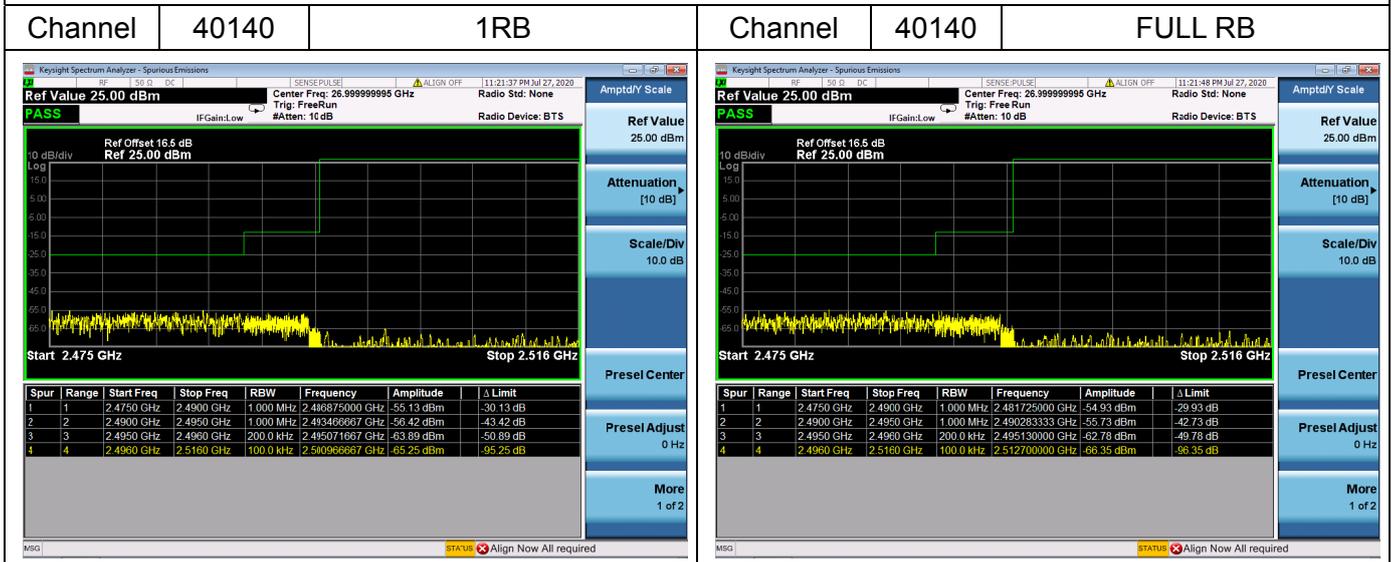
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6750 GHz	2.6900 GHz	1.000 MHz	2.687725000 GHz	-54.27 dBm	-84.27 dB
2	2	2.6900 GHz	2.6910 GHz	300.0 kHz	2.690583333 GHz	-62.60 dBm	-52.60 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.693340000 GHz	-54.35 dBm	-44.35 dB
4	4	2.6950 GHz	2.7050 GHz	1.000 MHz	2.700200000 GHz	-50.70 dBm	-43.70 dB
5	5	2.7050 GHz	2.7150 GHz	1.000 MHz	2.710750000 GHz	-54.50 dBm	-29.50 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6750 GHz	2.6900 GHz	1.000 MHz	2.688550000 GHz	-54.71 dBm	-84.71 dB
2	2	2.6900 GHz	2.6910 GHz	300.0 kHz	2.690363333 GHz	-63.16 dBm	-53.16 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.693306667 GHz	-55.09 dBm	-45.09 dB
4	4	2.6950 GHz	2.7050 GHz	1.000 MHz	2.702410000 GHz	-54.57 dBm	-41.57 dB
5	5	2.7050 GHz	2.7150 GHz	1.000 MHz	2.709900000 GHz	-54.10 dBm	-29.10 dB

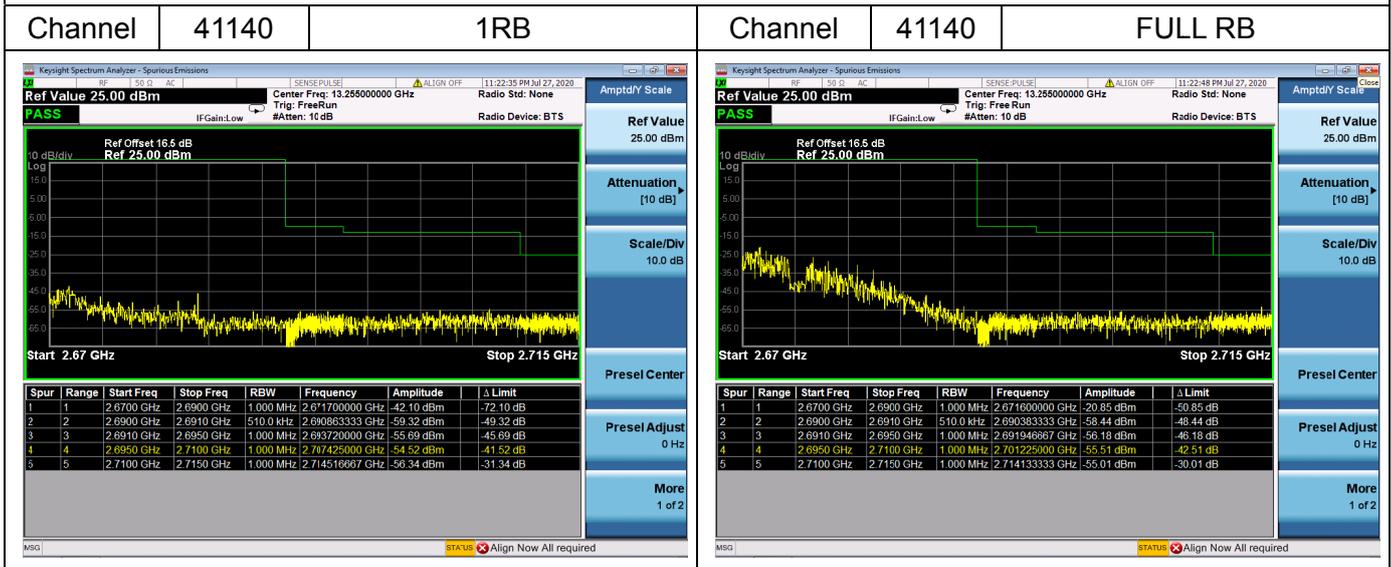


LTE Band 41

Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz



## 2.7. Radiated Spurious Emissions

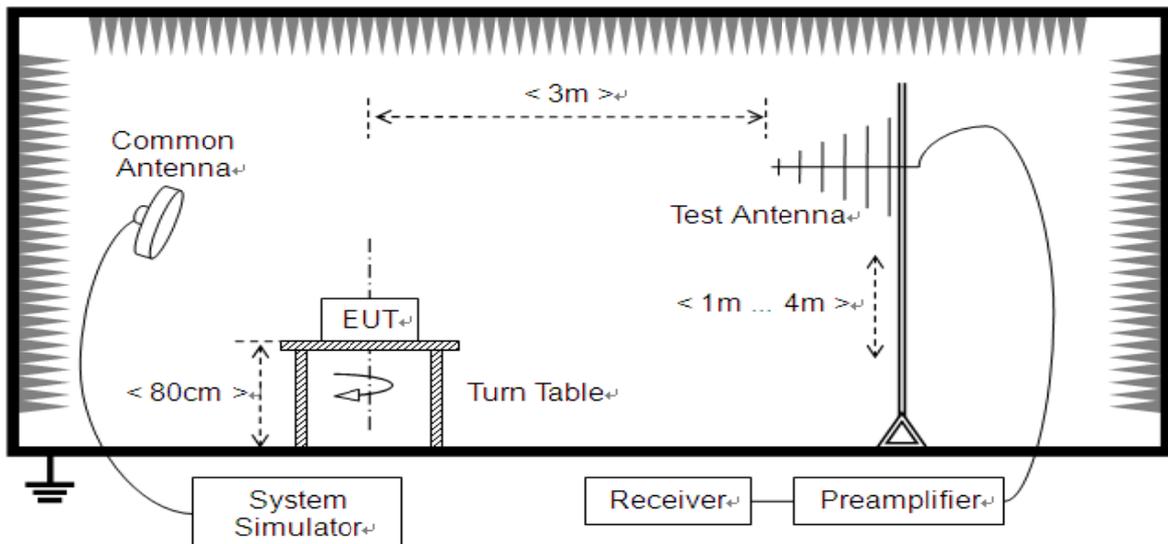
### 2.7.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \cdot \log(P)$  dB. This calculated to be -13dBm.

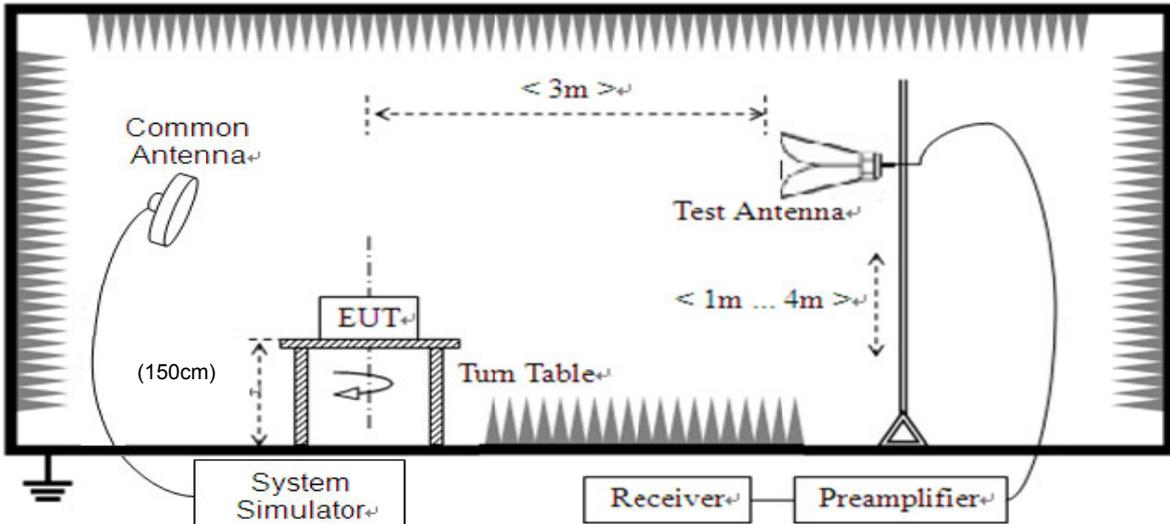
Additional requirement for LTE Band 7/41:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. This calculated to be -25dBm.

### 2.7.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

**Note:** when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.



#### 2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST\_TX}} - P_{\text{SUBST\_RX}} - L_{\text{SUBST\_CABLES}} + G_{\text{SUBST\_TX\_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where  $A_{\text{SUBST}}$  is the final substitution correction including receive antenna gain.

$P_{\text{SUBST\_TX}}$  is signal generator level,

$P_{\text{SUBST\_RX}}$  is receiver level,

$L_{\text{SUBST\_CABLES}}$  is cable losses including TX cable,

$G_{\text{SUBST\_TX\_ANT}}$  is substitution antenna gain.

$A_{\text{TOT}}$  is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{\text{TOT}}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{\text{TOT}}$ .

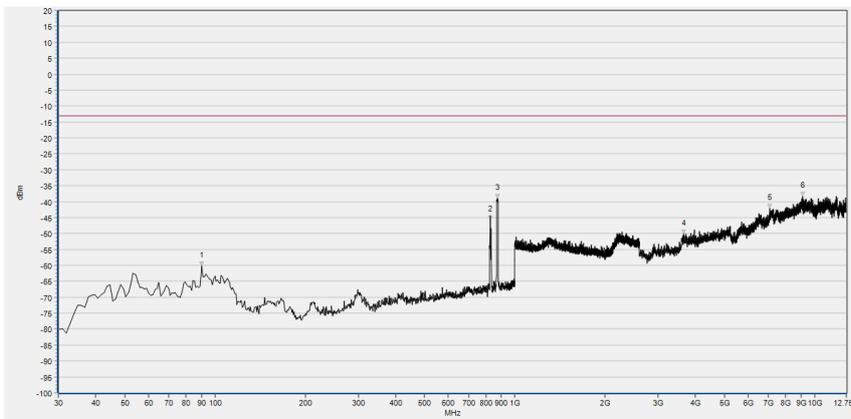
**Note1:** The power of the EUT transmitting frequency should be ignored.

**Note2:** All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

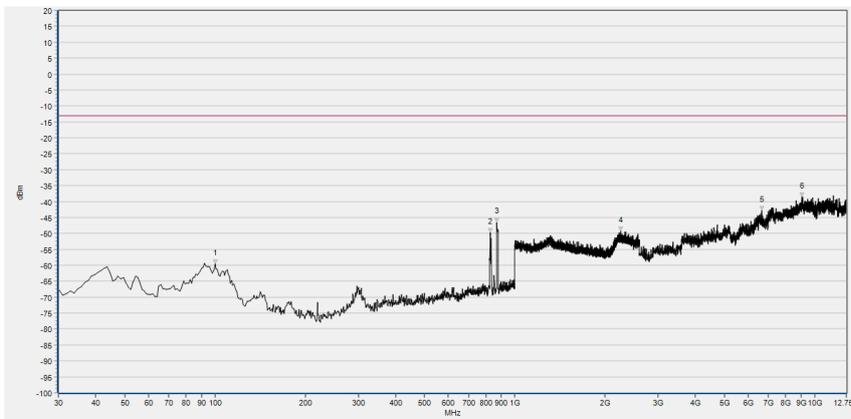
**Note3:** All bandwidth and test channel were considered and evaluated respectively by performing full test for each band, only the worst cases were recorded in this test report.



LTE Band 5 10MHz BW, Low Channel, QPSK



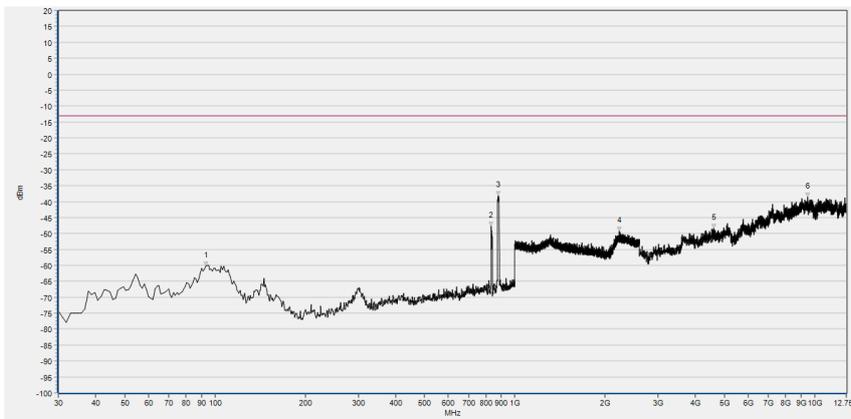
No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	90.200	-60.17	-13.00	Horizontal	PASS
2	827.167	-45.69	-13.00	Horizontal	NA
3	872.803	-39.02	-13.00	Horizontal	NA
4	3666.105	-50.19	-13.00	Horizontal	PASS
5	7094.565	-42.14	-13.00	Horizontal	PASS
6	9132.011	-38.35	-13.00	Horizontal	PASS



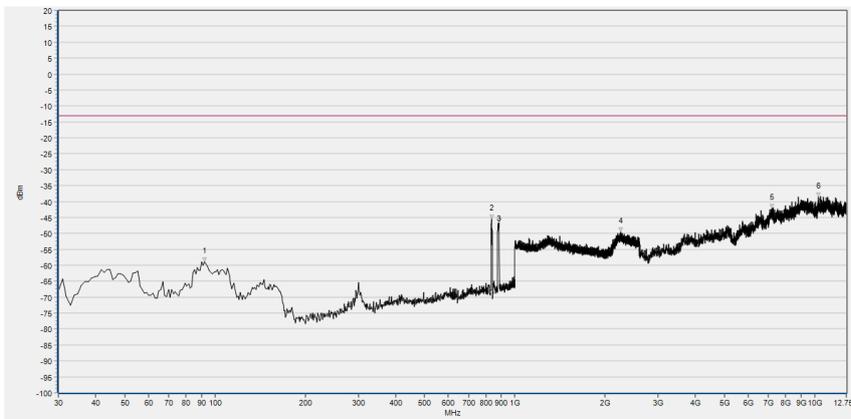
No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	99.910	-59.66	-13.00	Vertical	PASS
2	827.167	-49.73	-13.00	Vertical	NA
3	870.861	-46.49	-13.00	Vertical	NA
4	2254.285	-49.33	-13.00	Vertical	PASS
5	6647.816	-42.70	-13.00	Vertical	PASS
6	9047.399	-38.60	-13.00	Vertical	PASS



LTE Band 5 10MHz BW, Mid Channel, QPSK



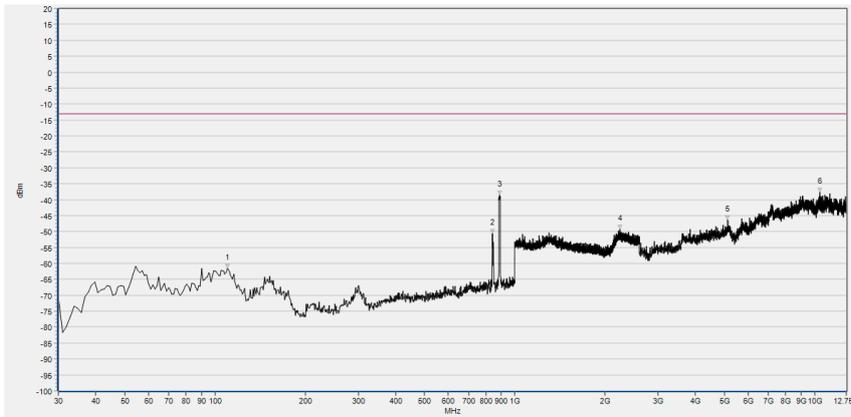
No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	93.113	-60.23	-13.00	Horizontal	PASS
2	833.964	-47.64	-13.00	Horizontal	NA
3	881.542	-38.04	-13.00	Horizontal	NA
4	2226.542	-49.25	-13.00	Horizontal	PASS
5	4610.370	-48.43	-13.00	Horizontal	PASS
6	9467.072	-38.54	-13.00	Horizontal	PASS



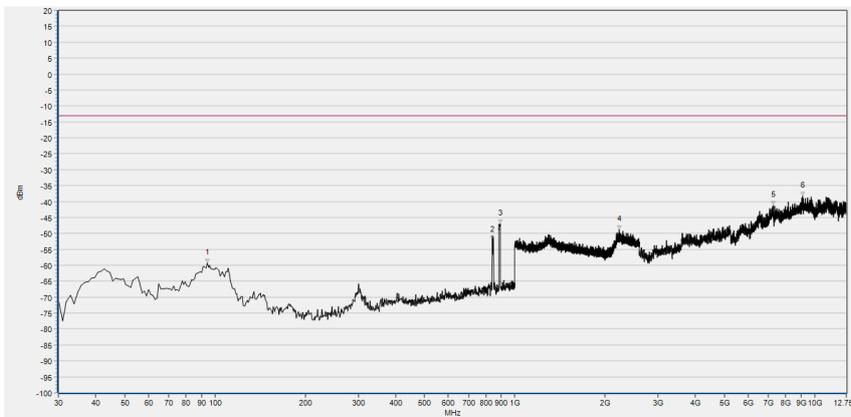
No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	92.142	-58.79	-13.00	Vertical	PASS
2	834.935	-45.45	-13.00	Vertical	NA
3	882.513	-46.64	-13.00	Vertical	NA
4	2255.352	-49.48	-13.00	Vertical	PASS
5	7179.176	-42.23	-13.00	Vertical	PASS
6	10299.650	-38.54	-13.00	Vertical	PASS



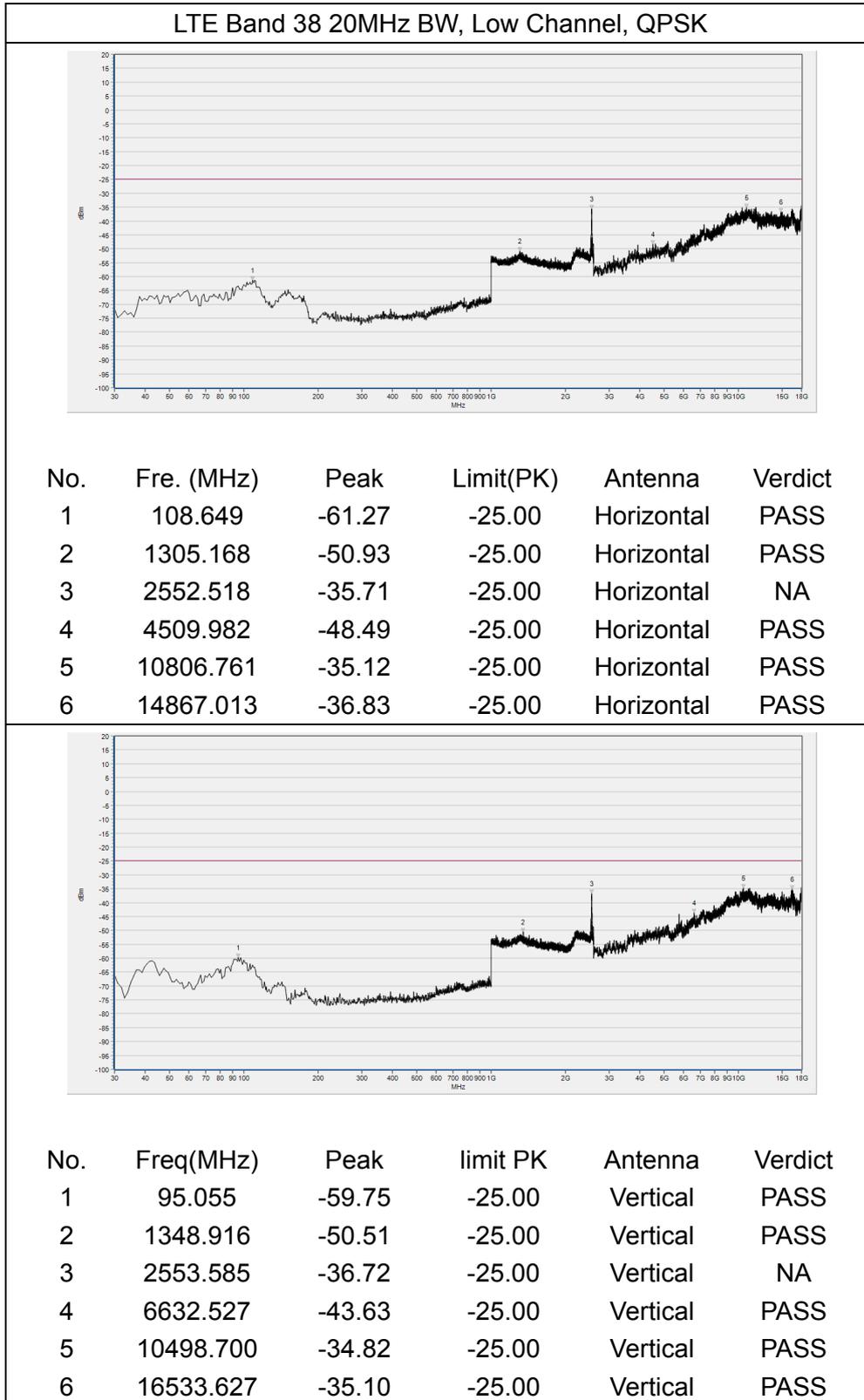
LTE Band 5 10MHz BW, High Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	109.620	-61.48	-13.00	Horizontal	PASS
2	839.790	-50.73	-13.00	Horizontal	NA
3	890.280	-38.54	-13.00	Horizontal	NA
4	2240.947	-49.16	-13.00	Horizontal	PASS
5	5128.193	-46.44	-13.00	Horizontal	PASS
6	10424.875	-37.73	-13.00	Horizontal	PASS

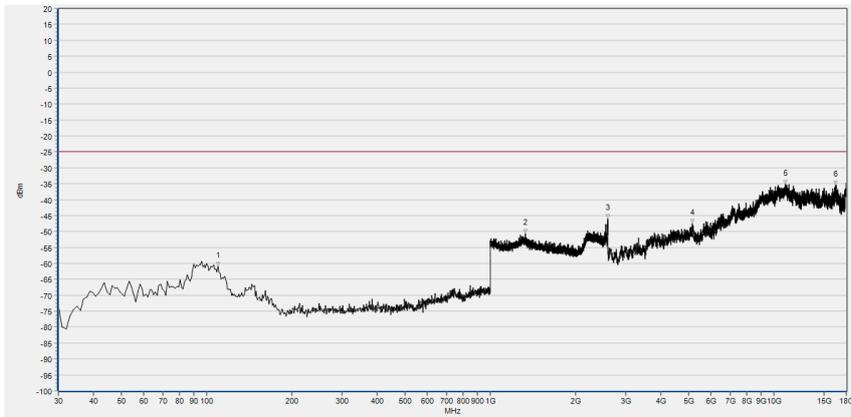


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	94.084	-59.34	-13.00	Vertical	PASS
2	841.732	-52.26	-13.00	Vertical	NA
3	893.193	-46.96	-13.00	Vertical	NA
4	2223.341	-48.77	-13.00	Vertical	PASS
5	7284.095	-41.34	-13.00	Vertical	PASS
6	9135.395	-38.39	-13.00	Vertical	PASS

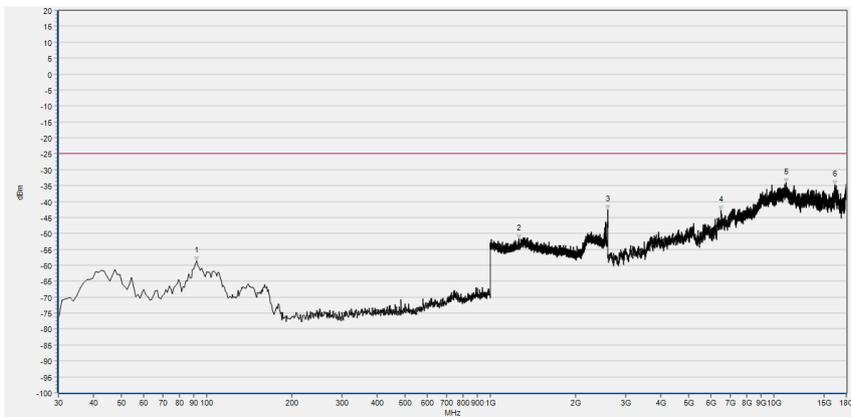




LTE Band 38 20MHz BW, Mid Channel, QPSK



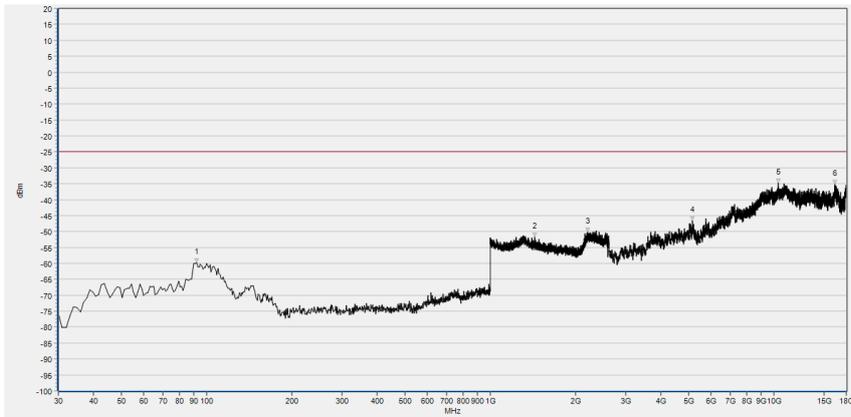
No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	109.620	-60.95	-25.00	Horizontal	PASS
2	1328.109	-50.61	-25.00	Horizontal	PASS
3	2596.265	-46.00	-25.00	Horizontal	NA
4	5163.073	-47.47	-25.00	Horizontal	PASS
5	10985.437	-35.29	-25.00	Horizontal	PASS
6	16533.627	-35.43	-25.00	Horizontal	PASS



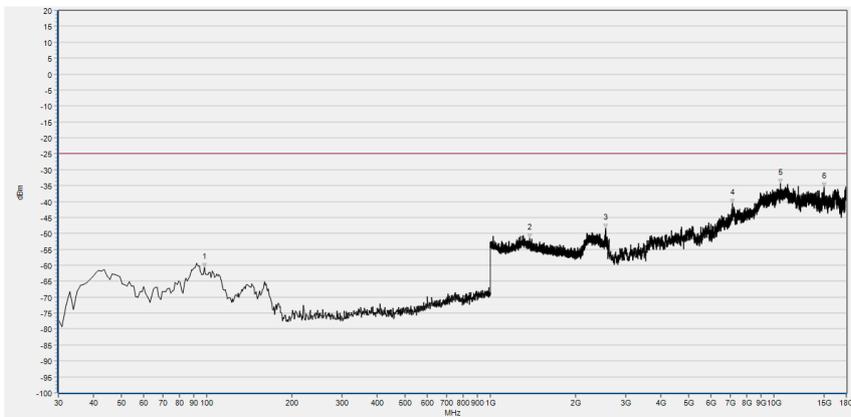
No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	92.142	-58.66	-25.00	Vertical	PASS
2	1258.753	-51.80	-25.00	Vertical	PASS
3	2596.799	-42.49	-25.00	Vertical	NA
4	6521.624	-42.69	-25.00	Vertical	PASS
5	11043.969	-34.07	-25.00	Vertical	PASS
6	16388.838	-34.73	-25.00	Vertical	PASS



LTE Band 38 20MHz BW, High Channel, QPSK

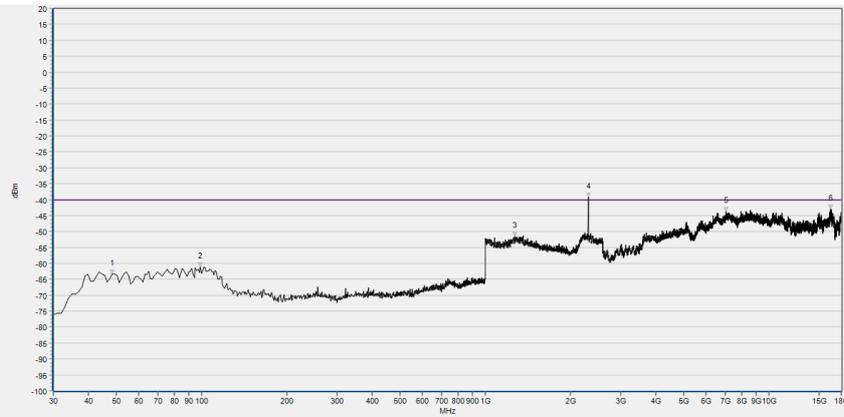


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	92.142	-59.77	-25.00	Horizontal	PASS
2	1437.479	-51.70	-25.00	Horizontal	PASS
3	2199.867	-50.26	-25.00	Horizontal	PASS
4	5169.234	-46.60	-25.00	Horizontal	PASS
5	10347.750	-34.65	-25.00	Horizontal	PASS
6	16385.757	-35.13	-25.00	Horizontal	PASS

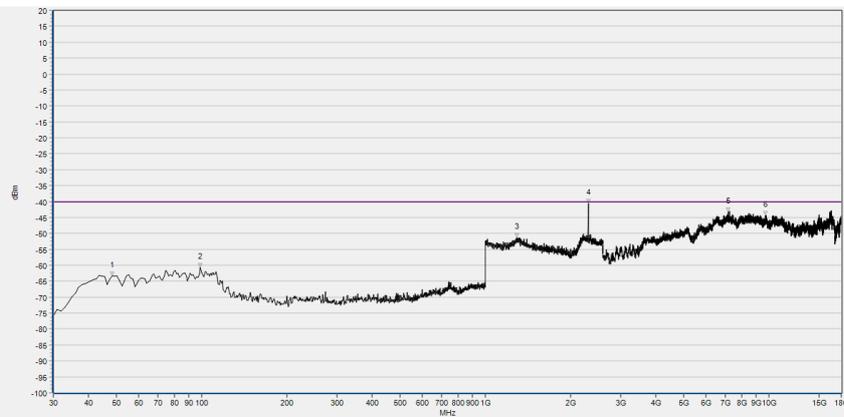


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	97.968	-60.72	-25.00	Vertical	PASS
2	1378.259	-51.62	-25.00	Vertical	PASS
3	2550.383	-48.37	-25.00	Vertical	NA
4	7150.070	-40.49	-25.00	Vertical	PASS
5	10523.345	-34.20	-25.00	Vertical	PASS
6	14999.480	-35.43	-25.00	Vertical	PASS

LTE Band 40, CH 38725, 5MHz BW, Low Channel, QPSK



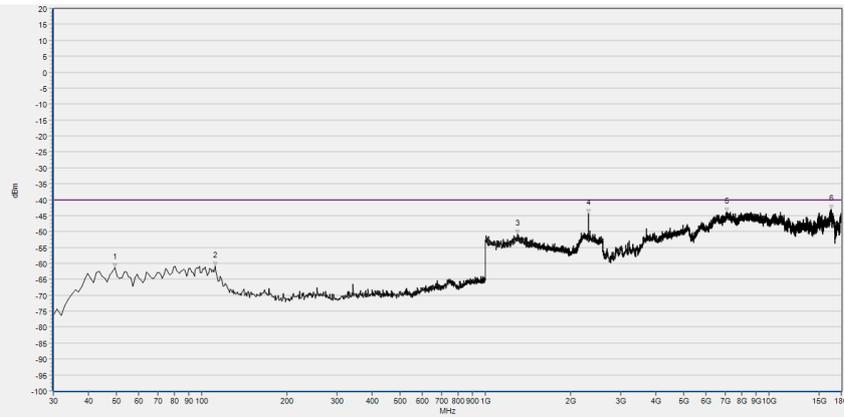
No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	48.448	-63.30	-40.00	Horizontal	PASS
2	98.939	-61.12	-40.00	Horizontal	PASS
3	1269.069	-51.57	-40.00	Horizontal	PASS
4	2305.305	-39.15	-40.00	Horizontal	NA
5	7076.135	-43.79	-40.00	Horizontal	PASS
6	16542.869	-43.03	-40.00	Horizontal	PASS



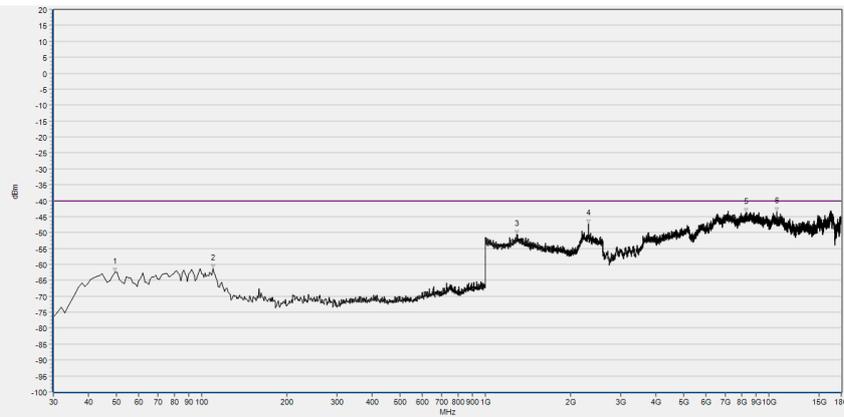
No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	48.448	-63.31	-40.00	Vertical	PASS
2	98.939	-60.73	-40.00	Vertical	PASS
3	1289.890	-51.32	-40.00	Vertical	PASS
4	2305.305	-40.50	-40.00	Vertical	NA
5	7168.554	-43.32	-40.00	Vertical	PASS
6	9710.062	-44.34	-40.00	Vertical	PASS



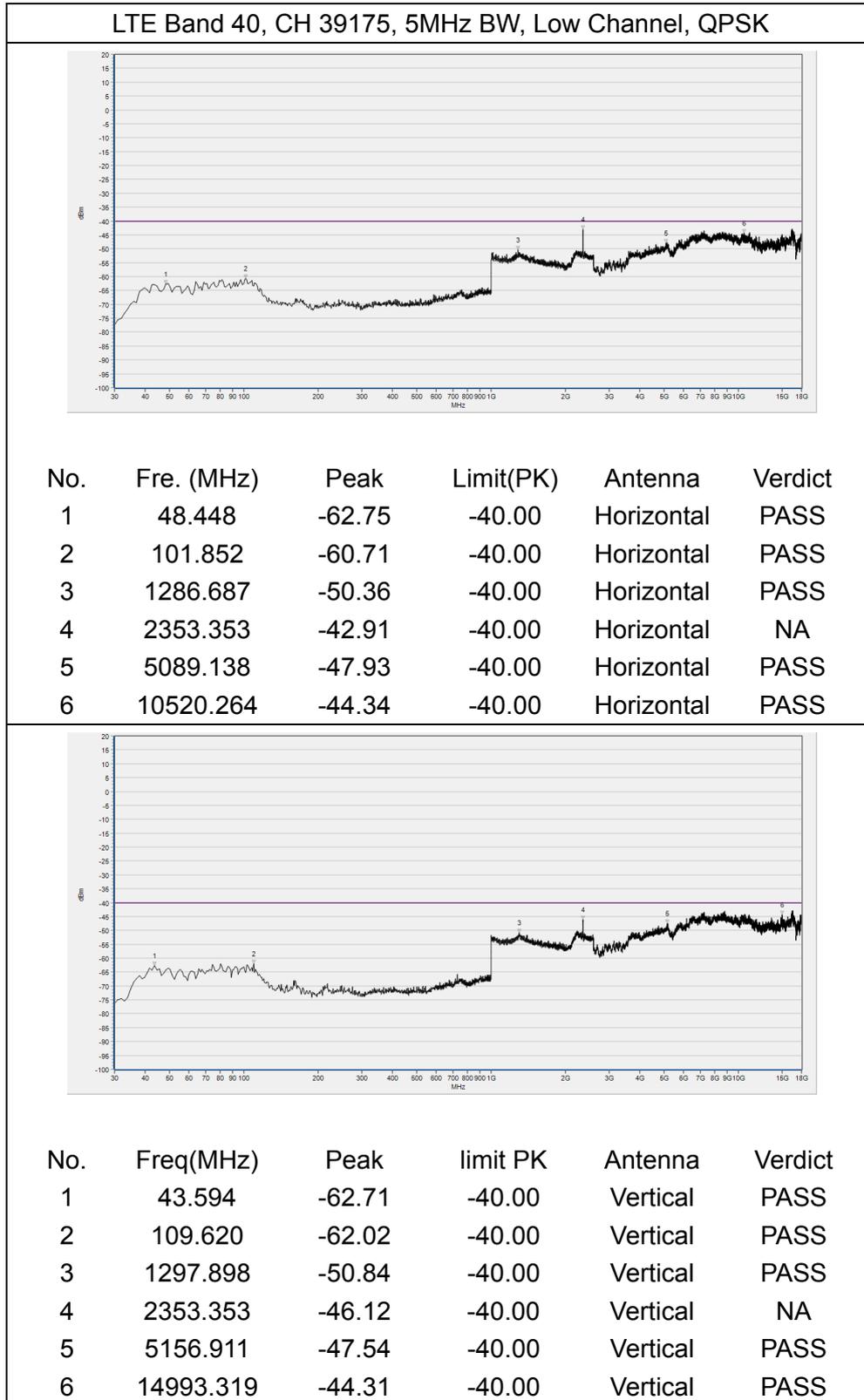
LTE Band 40, CH 38775, 5MHz BW, High Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	49.419	-61.42	-40.00	Horizontal	PASS
2	111.562	-60.88	-40.00	Horizontal	PASS
3	1296.296	-50.80	-40.00	Horizontal	PASS
4	2313.313	-44.45	-40.00	Horizontal	NA
5	7110.022	-43.94	-40.00	Horizontal	PASS
6	16545.949	-43.05	-40.00	Horizontal	PASS

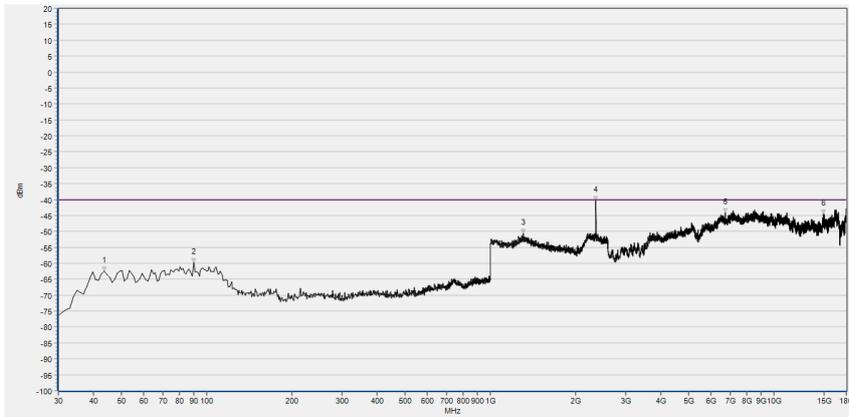


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	49.419	-62.54	-40.00	Vertical	PASS
2	109.620	-61.45	-40.00	Vertical	PASS
3	1291.491	-50.62	-40.00	Vertical	PASS
4	2314.915	-47.16	-40.00	Vertical	NA
5	8286.817	-43.65	-40.00	Vertical	PASS
6	10668.134	-43.54	-40.00	Vertical	PASS

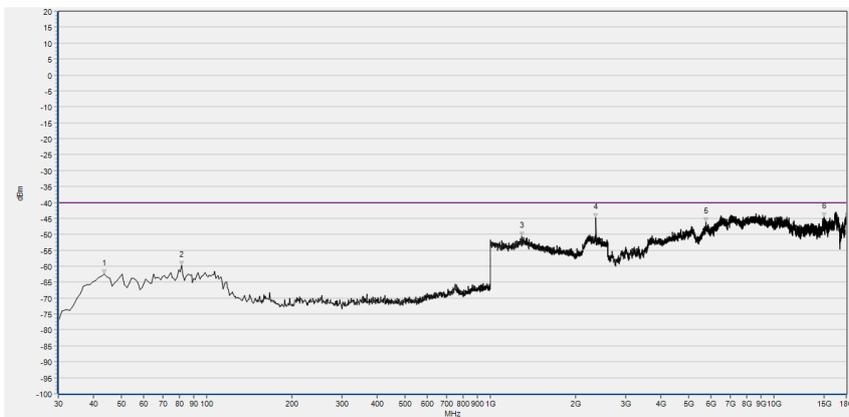




LTE Band 40, CH 39225, 5MHz BW, High Channel, QPSK

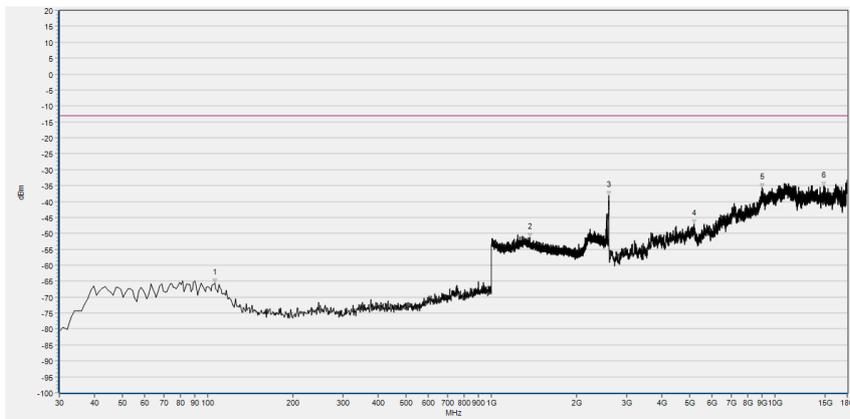


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	43.594	-62.41	-40.00	Horizontal	PASS
2	90.200	-59.85	-40.00	Horizontal	PASS
3	1309.109	-50.52	-40.00	Horizontal	PASS
4	2356.557	-40.43	-40.00	Horizontal	NA
5	6737.267	-44.09	-40.00	Horizontal	PASS
6	14910.142	-44.54	-40.00	Horizontal	PASS

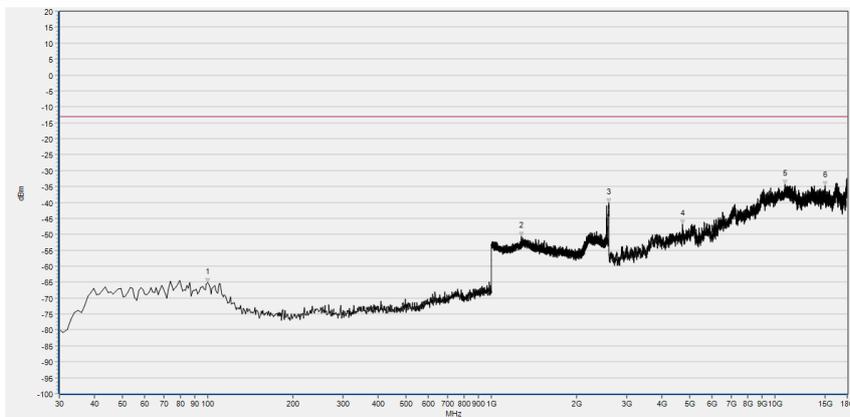


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	43.594	-62.44	-40.00	Vertical	PASS
2	81.461	-59.72	-40.00	Vertical	PASS
3	1291.491	-50.51	-40.00	Vertical	PASS
4	2358.158	-44.79	-40.00	Vertical	NA
5	5757.632	-46.06	-40.00	Vertical	PASS
6	15021.044	-44.69	-40.00	Vertical	PASS

LTE Band 41 20MHz BW, Low Channel, QPSK

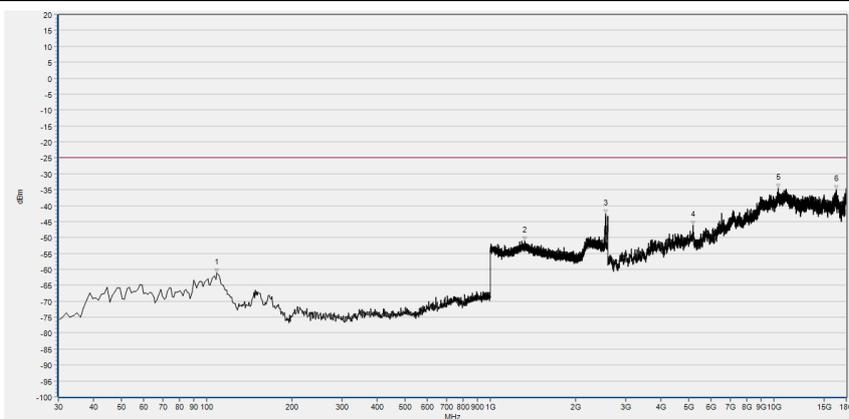


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	105.736	-65.66	-25.00	Horizontal	PASS
2	1372.391	-51.23	-25.00	Horizontal	PASS
3	2506.265	-38.13	-25.00	Horizontal	NA
4	5187.718	-46.96	-25.00	Horizontal	PASS
5	8989.198	-35.74	-25.00	Horizontal	PASS
6	14879.336	-35.19	-25.00	Horizontal	PASS

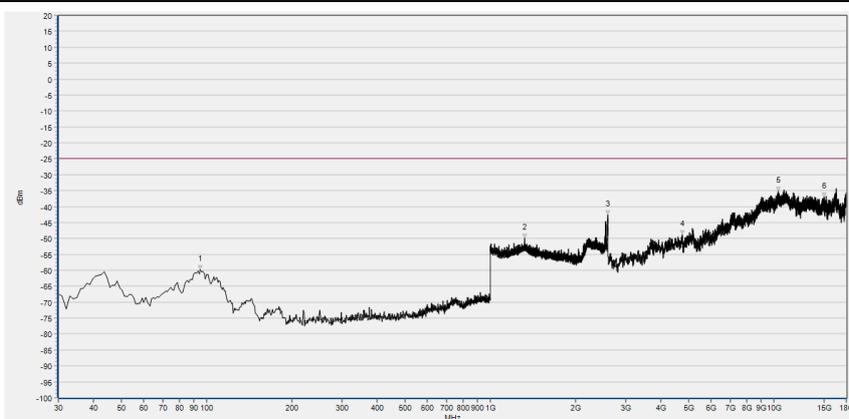


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	99.910	-65.08	-25.00	Vertical	PASS
2	1273.158	-50.68	-25.00	Vertical	PASS
3	2506.265	-40.03	-25.00	Vertical	NA
4	4722.545	-46.91	-25.00	Vertical	PASS
5	10877.616	-34.34	-25.00	Vertical	PASS
6	14996.399	-34.83	-25.00	Vertical	PASS

LTE Band 41 20MHz BW, Mid Channel, QPSK



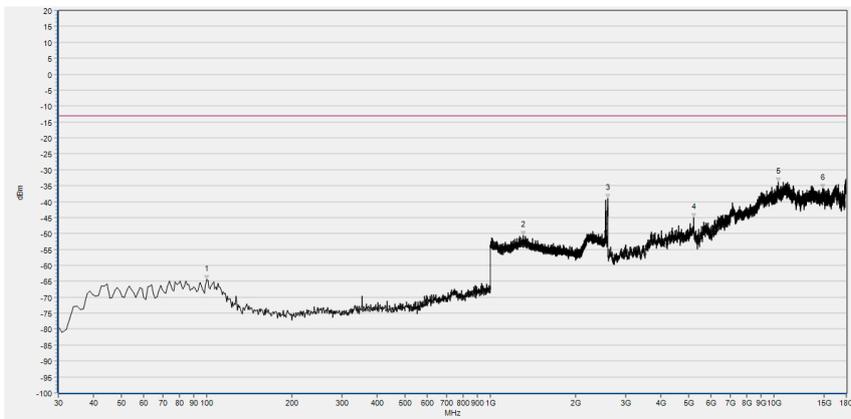
No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	108.649	-61.12	-25.00	Horizontal	PASS
2	1320.107	-50.99	-25.00	Horizontal	PASS
3	2548.249	-42.61	-25.00	Horizontal	NA
4	5175.395	-46.23	-25.00	Horizontal	PASS
5	10350.830	-34.61	-25.00	Horizontal	PASS
6	16555.191	-35.08	-25.00	Horizontal	PASS



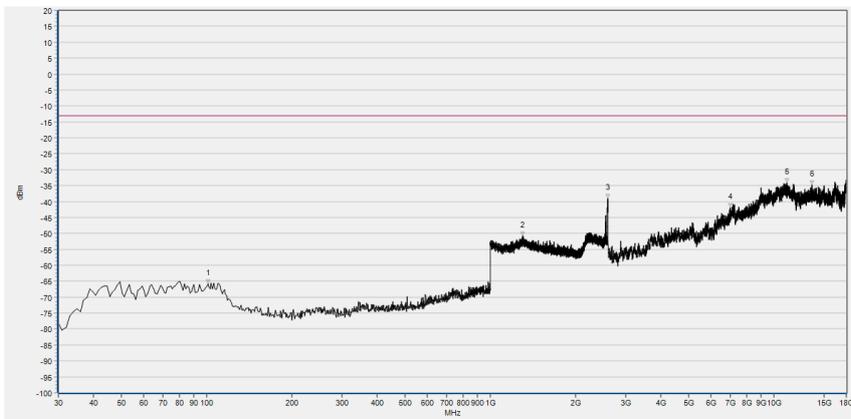
No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	95.055	-59.72	-25.00	Vertical	PASS
2	1318.506	-49.90	-25.00	Vertical	PASS
3	2596.265	-42.65	-25.00	Vertical	NA
4	4744.109	-48.76	-25.00	Vertical	PASS
5	10356.991	-35.12	-25.00	Vertical	PASS
6	15011.802	-36.93	-25.00	Vertical	PASS



LTE Band 41 20MHz BW, High Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	99.910	-64.50	-25.00	Horizontal	PASS
2	1309.436	-50.59	-25.00	Horizontal	PASS
3	2683.198	-39.00	-25.00	Horizontal	NA
4	5212.362	-45.02	-25.00	Horizontal	PASS
5	10384.717	-33.89	-25.00	Horizontal	PASS
6	14854.691	-35.93	-25.00	Horizontal	PASS



No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	100.881	-65.76	-25.00	Vertical	PASS
2	1303.034	-50.73	-25.00	Vertical	PASS
3	2683.136	-38.99	-25.00	Vertical	NA
4	7029.926	-41.79	-25.00	Vertical	PASS
5	11139.468	-34.16	-25.00	Vertical	PASS
6	13579.316	-34.86	-25.00	Vertical	PASS



## Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	$\pm 2.22$ dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	$\pm 2.77$ dB
Band Edge	$\pm 2.77$ dB
Equivalent Isotropic Radiated Power	$\pm 2.22$ dB
Radiated Spurious Emissions	$\pm 6$ dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$



## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

<b>Company Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Department:</b>	Morlab Laboratory
<b>Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
<b>Telephone:</b>	+86 755 36698555
<b>Facsimile:</b>	+86 755 36698525

### 2. Identification of the Responsible Testing Location

<b>Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
<b>Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



#### 4. Test Equipments Utilized

##### 4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	2020.04.15	2021.04.14
Attenuator 1	(N/A.)	10dB	Resnet	2020.04.15	2021.04.14
Attenuator 2	(N/A.)	3dB	Resnet	2020.04.15	2021.04.14
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2020.07.28	2021.07.27
USB Power Sensor	MY54210011	U2021XA	Agilent	2020.04.15	2021.04.14
System Simulator	6200995016	MT8820C	Anritsu	2020.01.13	2021.01.12
System Simulator	6261830572	MT8821C	Anritsu	2020.02.25	2021.02.24
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	(N/A)	HUT705P	CHONGQING HANBA EXPERIMENTAL EQUIPMENT CO.,LTD	2020.03.25	2021.03.24
Computer	T430i	Think Pad	Lenovo	N/A	N/A

**4.2 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due
System Simulator	152038	CMW500	R&S	2020.01.13	2021.01.12
System Simulator	6200995016	MT8820C	Anritsu	2020.02.25	2021.02.24
Receiver	MY54130016	N9038A	Agilent	2020.07.28	2021.07.27
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.05.24	2022.05.23
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable(N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
1-18GHz pre-Amplifier	S020180L3203	N/A	Dongsheng	2020.07.28	2021.07.27
18-26.5GHz pre-Amplifier	S10M100L3802	N/A	Dongsheng	2020.07.28	2021.07.27
Notch Filter	N/A	WRCGV -LTE B2	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B4	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B5	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B7	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B12	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B17	Wainwright	2019.12.01	2020.11.30



Notch Filter	N/A	WRCGV -LTE B19	Wainwright	2019.12.01	2020.11.30
<b>Equipment Name</b>	<b>Serial No.</b>	<b>Type</b>	<b>Manufacturer</b>	<b>Cal. Date</b>	<b>Cal.Due</b>
Notch Filter	N/A	WRCGV -LTE B25	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B26	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B30	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE 38	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B40	Wainwright	2019.12.01	2020.11.30
Notch Filter	N/A	WRCGV -LTE B41	Wainwright	2019.12.01	2020.11.30
Anechoic Chamber	N/A	9m*6m*6m	CRT	2019.07.13	2022.07.12

————— END OF REPORT —————