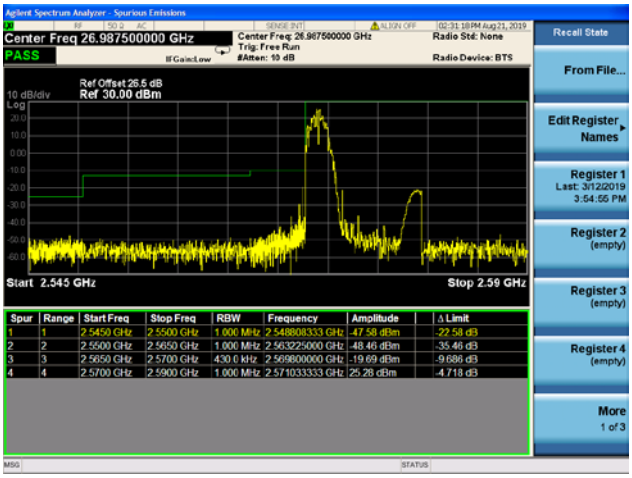
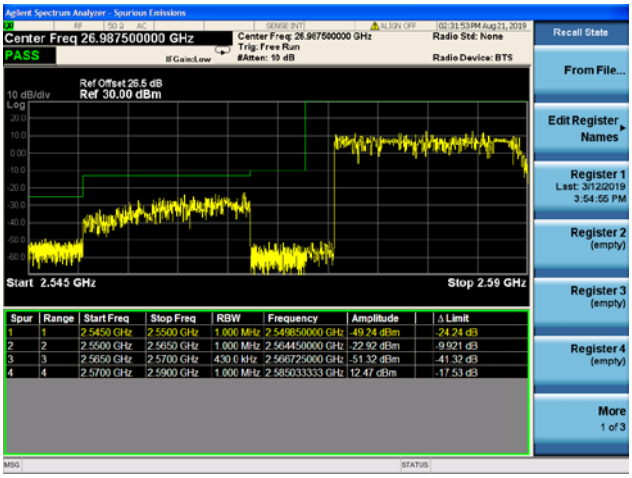
LTE Band 38

Channel Bandwidth: 20MHz

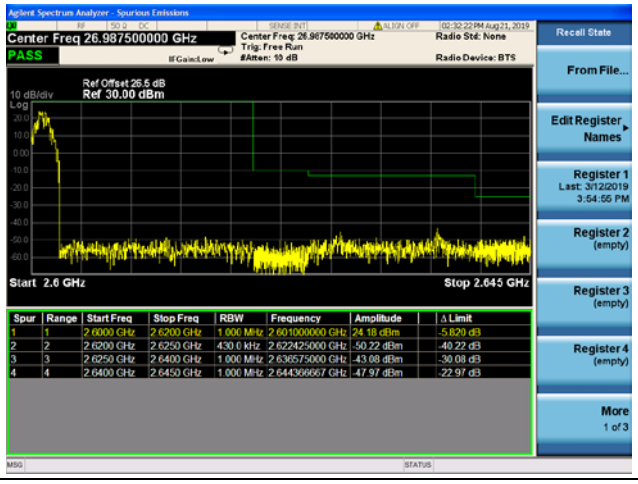
Channel	37850	1RB	Channel	37850	FULL RB

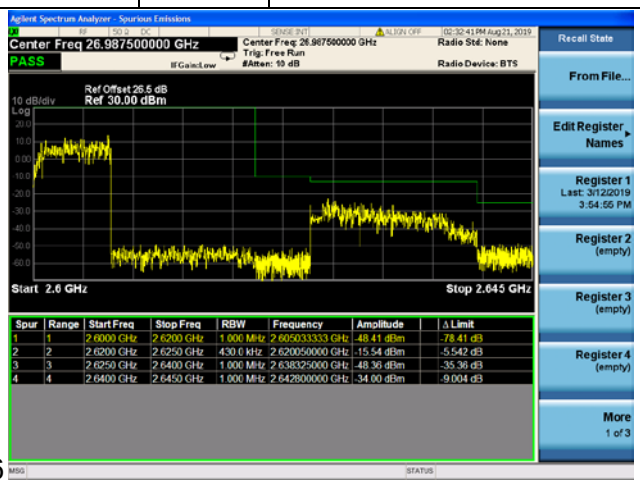




Channel Bandwidth: 20MHz

Channel	38150	1RB	Channel	38150	FULL RB



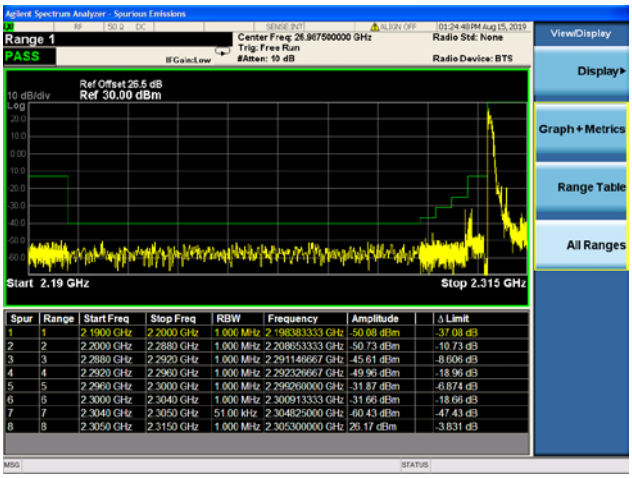


6

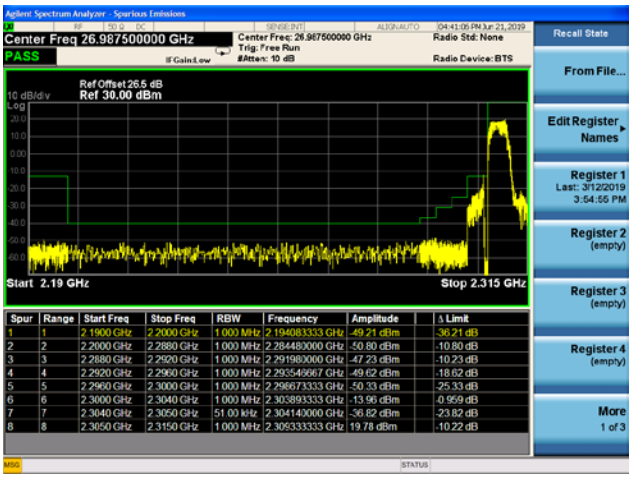
LTE Band 40 (2305MHz ~ 2315MHz)

Channel Bandwidth: 5MHz

Channel	38725	1RB	Channel	38725	FULL RB



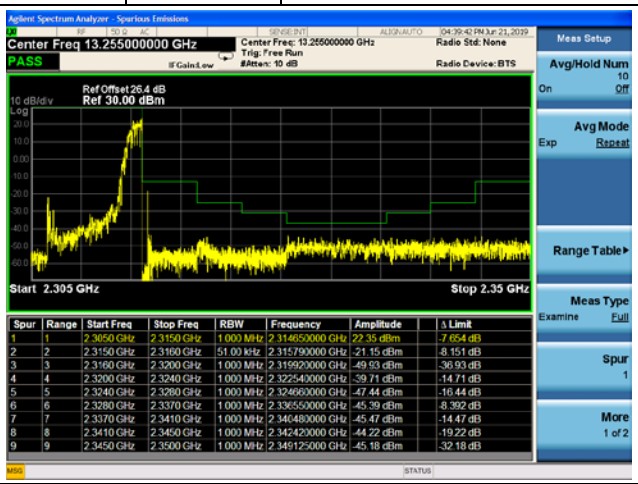
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.1900 GHz	2.2000 GHz	1.000 MHz	2.198383333 GHz	-50.08 dBm	-37.08 dB
2	2	2.2000 GHz	2.2880 GHz	1.000 MHz	2.208653333 GHz	-50.73 dBm	-10.73 dB
3	3	2.2880 GHz	2.2920 GHz	1.000 MHz	2.291146667 GHz	-45.61 dBm	-8.606 dB
4	4	2.2920 GHz	2.2960 GHz	1.000 MHz	2.292326667 GHz	-49.96 dBm	-18.96 dB
5	5	2.2960 GHz	2.3000 GHz	1.000 MHz	2.299260000 GHz	-31.87 dBm	-6.874 dB
6	6	2.3000 GHz	2.3040 GHz	1.000 MHz	2.300913333 GHz	-31.66 dBm	-18.66 dB
7	7	2.3040 GHz	2.3050 GHz	51.00 kHz	2.304825000 GHz	-60.43 dBm	-47.43 dB
8	8	2.3050 GHz	2.3150 GHz	1.000 MHz	2.305300000 GHz	26.17 dBm	-3.831 dB



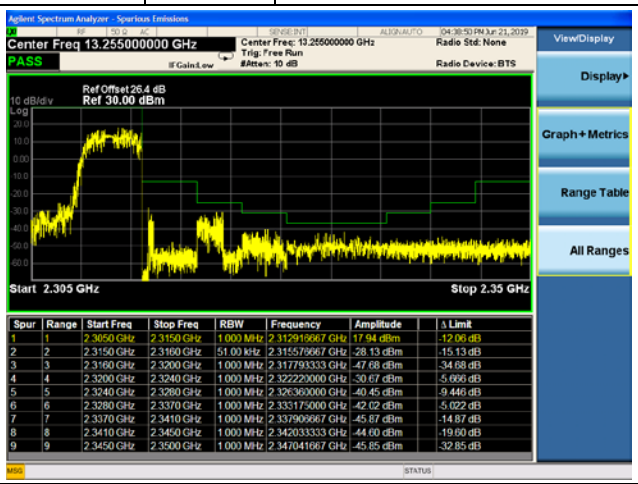
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.1900 GHz	2.2000 GHz	1.000 MHz	2.194083333 GHz	-49.21 dBm	-36.21 dB
2	2	2.2000 GHz	2.2880 GHz	1.000 MHz	2.284480000 GHz	-50.80 dBm	-10.80 dB
3	3	2.2880 GHz	2.2920 GHz	1.000 MHz	2.291980000 GHz	-47.23 dBm	-10.23 dB
4	4	2.2920 GHz	2.2960 GHz	1.000 MHz	2.293546667 GHz	-49.62 dBm	-18.62 dB
5	5	2.2960 GHz	2.3000 GHz	1.000 MHz	2.298673333 GHz	-50.33 dBm	-25.33 dB
6	6	2.3000 GHz	2.3040 GHz	1.000 MHz	2.303893333 GHz	-13.96 dBm	-0.959 dB
7	7	2.3040 GHz	2.3050 GHz	51.00 kHz	2.304140000 GHz	-36.82 dBm	-23.82 dB
8	8	2.3050 GHz	2.3150 GHz	1.000 MHz	2.305333333 GHz	19.78 dBm	-10.22 dB

Channel Bandwidth: 5MHz

Channel	38775	1RB	Channel	38775	FULL RB



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3050 GHz	2.3150 GHz	1.000 MHz	2.314650000 GHz	22.35 dBm	-7.654 dB
2	2	2.3150 GHz	2.3160 GHz	51.00 kHz	2.315790000 GHz	-21.15 dBm	-8.151 dB
3	3	2.3160 GHz	2.3200 GHz	1.000 MHz	2.319920000 GHz	-49.93 dBm	-36.93 dB
4	4	2.3200 GHz	2.3240 GHz	1.000 MHz	2.322540000 GHz	-39.71 dBm	-14.71 dB
5	5	2.3240 GHz	2.3280 GHz	1.000 MHz	2.324660000 GHz	-47.44 dBm	-16.44 dB
6	6	2.3280 GHz	2.3370 GHz	1.000 MHz	2.336550000 GHz	-45.39 dBm	-8.392 dB
7	7	2.3370 GHz	2.3410 GHz	1.000 MHz	2.340480000 GHz	-45.47 dBm	-14.47 dB
8	8	2.3410 GHz	2.3450 GHz	1.000 MHz	2.342420000 GHz	-44.22 dBm	-19.22 dB
9	9	2.3450 GHz	2.3500 GHz	1.000 MHz	2.349125000 GHz	-45.18 dBm	-32.18 dB

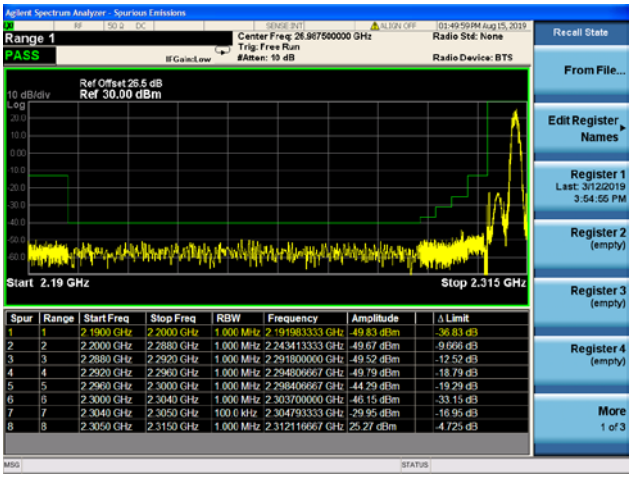


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3050 GHz	2.3150 GHz	1.000 MHz	2.312916667 GHz	17.94 dBm	-12.06 dB
2	2	2.3150 GHz	2.3160 GHz	51.00 kHz	2.315576667 GHz	-28.13 dBm	-15.13 dB
3	3	2.3160 GHz	2.3200 GHz	1.000 MHz	2.317793333 GHz	-47.68 dBm	-34.68 dB
4	4	2.3200 GHz	2.3240 GHz	1.000 MHz	2.322220000 GHz	-30.67 dBm	-5.666 dB
5	5	2.3240 GHz	2.3280 GHz	1.000 MHz	2.326360000 GHz	-40.45 dBm	-9.446 dB
6	6	2.3280 GHz	2.3370 GHz	1.000 MHz	2.333175000 GHz	-42.02 dBm	-5.022 dB
7	7	2.3370 GHz	2.3410 GHz	1.000 MHz	2.337909667 GHz	-45.87 dBm	-14.87 dB
8	8	2.3410 GHz	2.3450 GHz	1.000 MHz	2.342033333 GHz	-44.60 dBm	-19.60 dB
9	9	2.3450 GHz	2.3500 GHz	1.000 MHz	2.347041667 GHz	-45.85 dBm	-32.85 dB

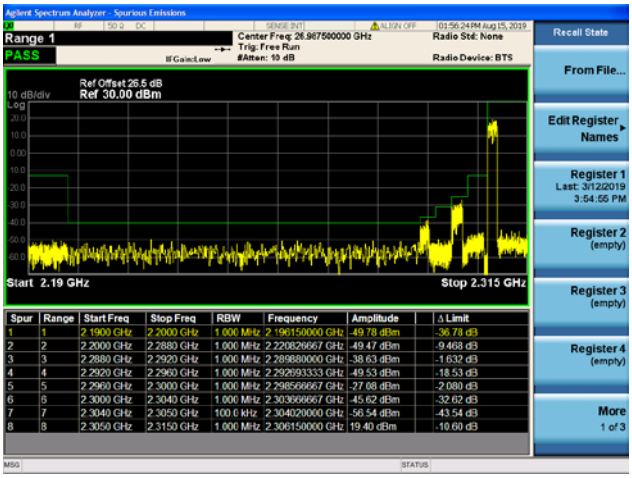
LTE Band 40 (2305MHz ~ 2315MHz)

Channel Bandwidth: 10MHz

Channel	38750	1RB	Channel	38750	FULL RB



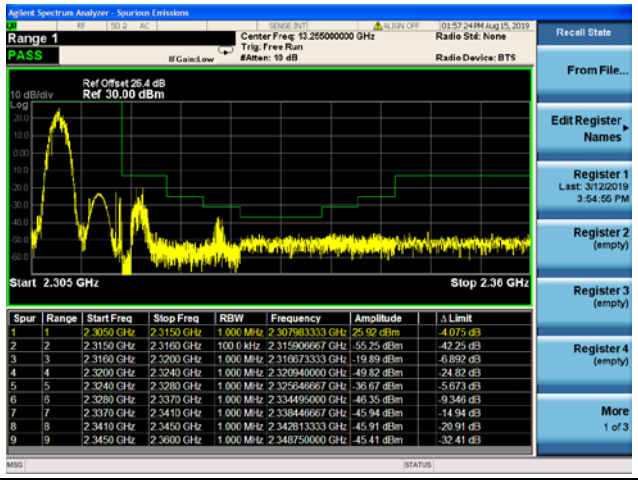
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.1900 GHz	2.2000 GHz	1.000 MHz	2.191983333 GHz	-49.83 dBm	-36.83 dB
2	2	2.2000 GHz	2.2880 GHz	1.000 MHz	2.243413333 GHz	-49.67 dBm	-9.666 dB
3	3	2.2880 GHz	2.2920 GHz	1.000 MHz	2.291800000 GHz	-49.52 dBm	-12.52 dB
4	4	2.2920 GHz	2.2960 GHz	1.000 MHz	2.294806667 GHz	-49.79 dBm	-18.79 dB
5	5	2.2960 GHz	2.3000 GHz	1.000 MHz	2.298406667 GHz	-44.29 dBm	-19.29 dB
6	6	2.3000 GHz	2.3040 GHz	1.000 MHz	2.303700000 GHz	-46.15 dBm	-33.15 dB
7	7	2.3040 GHz	2.3050 GHz	100.0 kHz	2.304793333 GHz	-29.95 dBm	-16.95 dB
8	8	2.3050 GHz	2.3150 GHz	1.000 MHz	2.312116667 GHz	25.27 dBm	-4.725 dB



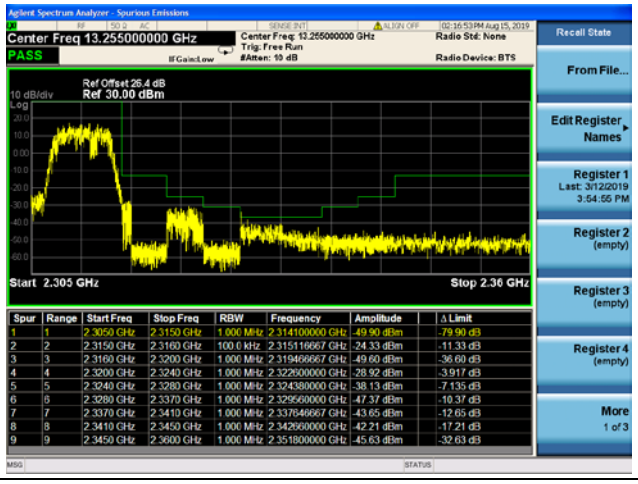
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.1900 GHz	2.2000 GHz	1.000 MHz	2.196150000 GHz	-49.78 dBm	-36.78 dB
2	2	2.2000 GHz	2.2880 GHz	1.000 MHz	2.220826667 GHz	-49.47 dBm	-9.468 dB
3	3	2.2880 GHz	2.2920 GHz	1.000 MHz	2.289880000 GHz	-38.63 dBm	-1.632 dB
4	4	2.2920 GHz	2.2960 GHz	1.000 MHz	2.292693333 GHz	-49.53 dBm	-18.53 dB
5	5	2.2960 GHz	2.3000 GHz	1.000 MHz	2.298566667 GHz	-27.08 dBm	-2.080 dB
6	6	2.3000 GHz	2.3040 GHz	1.000 MHz	2.303966667 GHz	-45.62 dBm	-32.62 dB
7	7	2.3040 GHz	2.3050 GHz	100.0 kHz	2.304020000 GHz	-56.54 dBm	-43.54 dB
8	8	2.3050 GHz	2.3150 GHz	1.000 MHz	2.306150000 GHz	19.40 dBm	-10.60 dB

Channel Bandwidth: 10MHz

Channel	38750	1RB	Channel	38750	FULL RB



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3050 GHz	2.3150 GHz	1.000 MHz	2.307983333 GHz	25.92 dBm	-4.075 dB
2	2	2.3150 GHz	2.3160 GHz	100.0 kHz	2.315906667 GHz	-55.25 dBm	-42.25 dB
3	3	2.3160 GHz	2.3200 GHz	1.000 MHz	2.316673333 GHz	-19.89 dBm	-6.892 dB
4	4	2.3200 GHz	2.3240 GHz	1.000 MHz	2.320940000 GHz	-49.82 dBm	-24.82 dB
5	5	2.3240 GHz	2.3280 GHz	1.000 MHz	2.325646667 GHz	-36.67 dBm	-5.673 dB
6	6	2.3280 GHz	2.3370 GHz	1.000 MHz	2.334495000 GHz	-46.35 dBm	-9.346 dB
7	7	2.3370 GHz	2.3410 GHz	1.000 MHz	2.338446667 GHz	-45.94 dBm	-14.94 dB
8	8	2.3410 GHz	2.3450 GHz	1.000 MHz	2.342813333 GHz	-45.91 dBm	-20.91 dB
9	9	2.3450 GHz	2.3600 GHz	1.000 MHz	2.348750000 GHz	-45.41 dBm	-32.41 dB

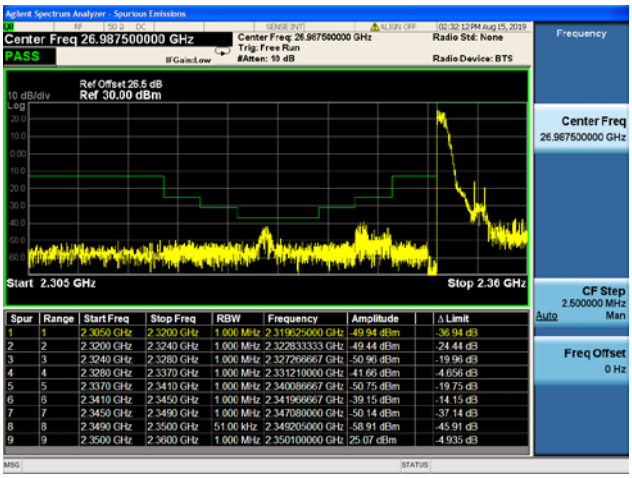


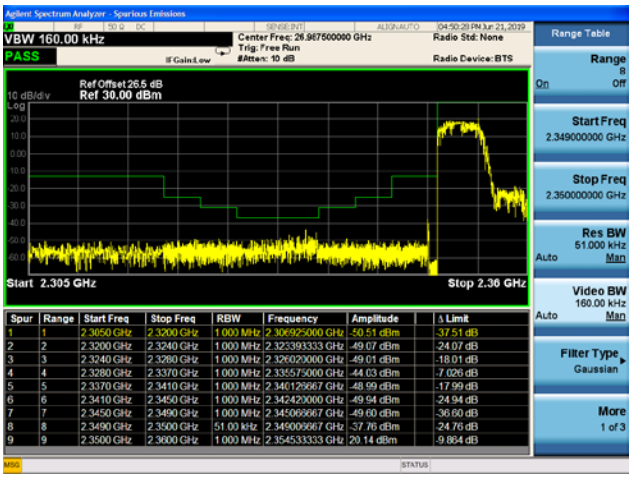
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3050 GHz	2.3150 GHz	1.000 MHz	2.314100000 GHz	-49.90 dBm	-79.90 dB
2	2	2.3150 GHz	2.3160 GHz	100.0 kHz	2.315116667 GHz	-24.33 dBm	-11.33 dB
3	3	2.3160 GHz	2.3200 GHz	1.000 MHz	2.319466667 GHz	-49.60 dBm	-36.60 dB
4	4	2.3200 GHz	2.3240 GHz	1.000 MHz	2.322600000 GHz	-28.92 dBm	-3.917 dB
5	5	2.3240 GHz	2.3280 GHz	1.000 MHz	2.324380000 GHz	-38.13 dBm	-7.135 dB
6	6	2.3280 GHz	2.3370 GHz	1.000 MHz	2.329560000 GHz	-47.37 dBm	-10.37 dB
7	7	2.3370 GHz	2.3410 GHz	1.000 MHz	2.337646667 GHz	-43.65 dBm	-12.65 dB
8	8	2.3410 GHz	2.3450 GHz	1.000 MHz	2.342960000 GHz	-42.21 dBm	-17.21 dB
9	9	2.3450 GHz	2.3600 GHz	1.000 MHz	2.351800000 GHz	-45.63 dBm	-32.63 dB

LTE Band 40 (2350MHz ~ 2360MHz)

Channel Bandwidth: 5MHz

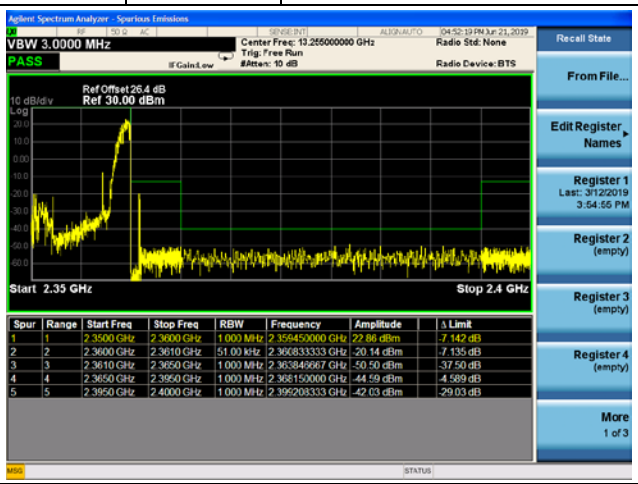
Channel	38725	1RB	Channel	38725	FULL RB

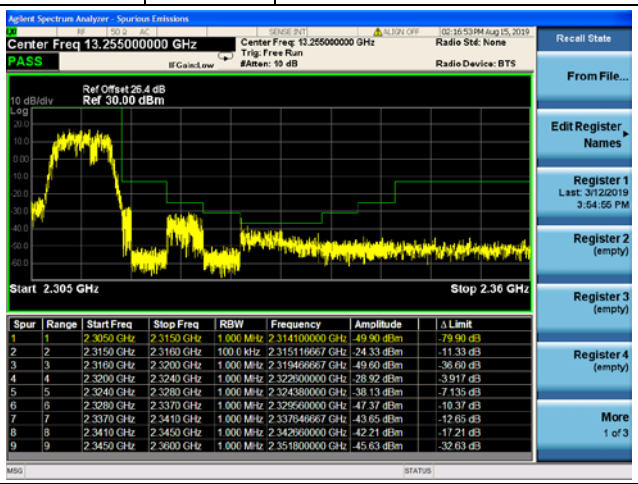




Channel Bandwidth: 5MHz

Channel	38775	1RB	Channel	38775	FULL RB

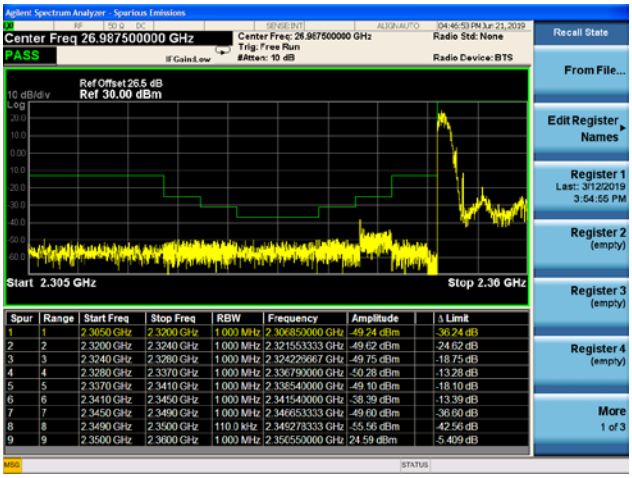




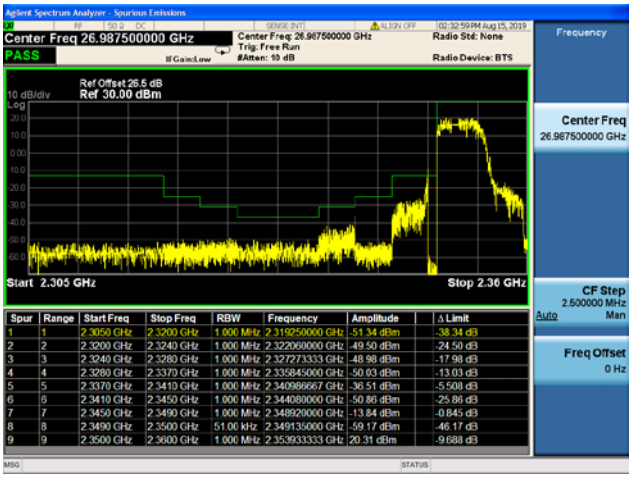
LTE Band 40 (2350MHz ~ 2360MHz)

Channel Bandwidth: 10MHz

Channel	38750	1RB	Channel	38750	FULL RB



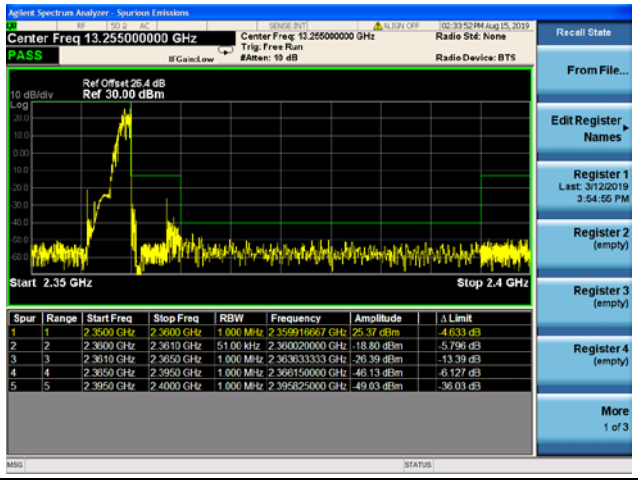
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3050 GHz	2.3200 GHz	1.000 MHz	2.306850000 GHz	-49.24 dBm	-36.24 dB
2	2	2.3200 GHz	2.3240 GHz	1.000 MHz	2.321553333 GHz	-49.62 dBm	-24.62 dB
3	3	2.3240 GHz	2.3280 GHz	1.000 MHz	2.324226667 GHz	-49.75 dBm	-18.75 dB
4	4	2.3280 GHz	2.3370 GHz	1.000 MHz	2.336790000 GHz	-50.28 dBm	-13.28 dB
5	5	2.3370 GHz	2.3410 GHz	1.000 MHz	2.338540000 GHz	-49.10 dBm	-18.10 dB
6	6	2.3410 GHz	2.3450 GHz	1.000 MHz	2.341540000 GHz	-38.39 dBm	-13.39 dB
7	7	2.3450 GHz	2.3490 GHz	1.000 MHz	2.346653333 GHz	-49.60 dBm	-36.60 dB
8	8	2.3490 GHz	2.3500 GHz	110.0 kHz	2.349278333 GHz	-55.56 dBm	-42.56 dB
9	9	2.3500 GHz	2.3600 GHz	1.000 MHz	2.350550000 GHz	24.59 dBm	-5.409 dB



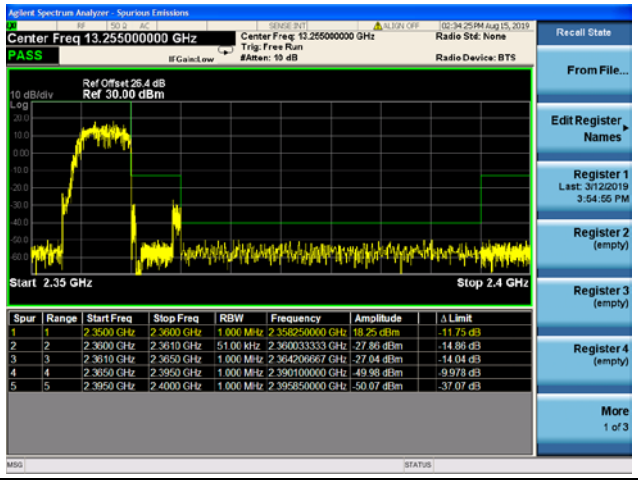
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3050 GHz	2.3200 GHz	1.000 MHz	2.319250000 GHz	-51.34 dBm	-38.34 dB
2	2	2.3200 GHz	2.3240 GHz	1.000 MHz	2.322060000 GHz	-49.50 dBm	-24.50 dB
3	3	2.3240 GHz	2.3280 GHz	1.000 MHz	2.327273333 GHz	-48.98 dBm	-17.98 dB
4	4	2.3280 GHz	2.3370 GHz	1.000 MHz	2.335845000 GHz	-50.03 dBm	-13.03 dB
5	5	2.3370 GHz	2.3410 GHz	1.000 MHz	2.340986667 GHz	-36.51 dBm	-5.508 dB
6	6	2.3410 GHz	2.3450 GHz	1.000 MHz	2.344080000 GHz	-50.86 dBm	-25.86 dB
7	7	2.3450 GHz	2.3490 GHz	1.000 MHz	2.348920000 GHz	-13.84 dBm	-0.845 dB
8	8	2.3490 GHz	2.3500 GHz	51.00 kHz	2.349135000 GHz	-59.17 dBm	-46.17 dB
9	9	2.3500 GHz	2.3600 GHz	1.000 MHz	2.353933333 GHz	20.31 dBm	-9.688 dB

Channel Bandwidth: 10MHz

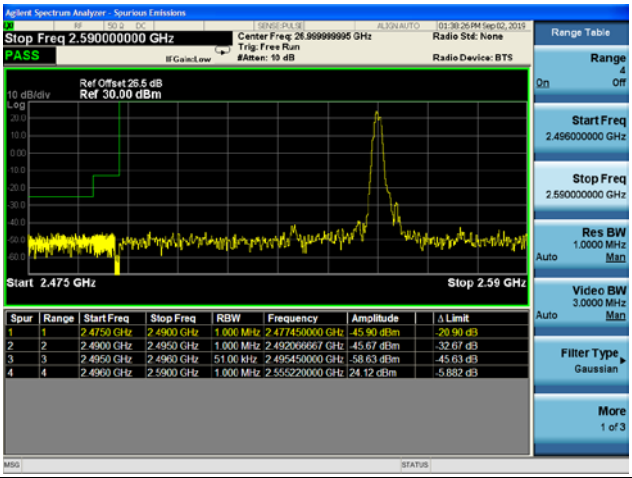
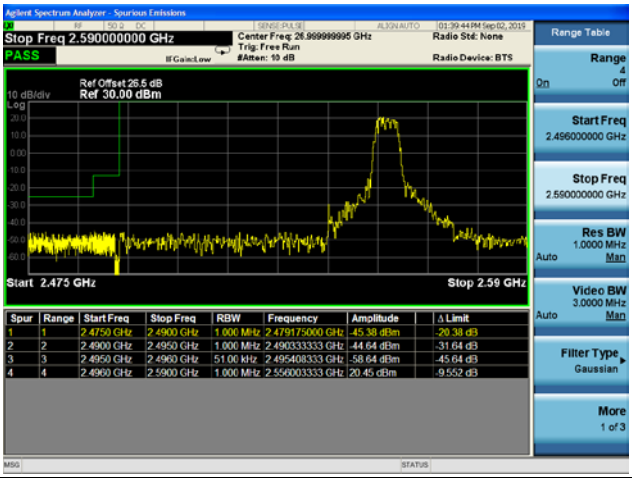
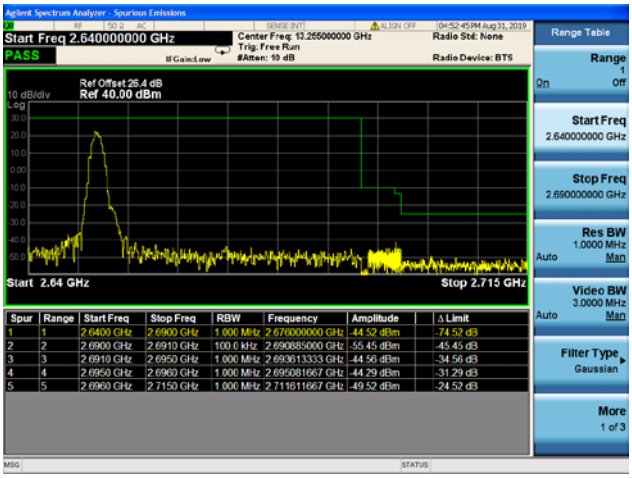
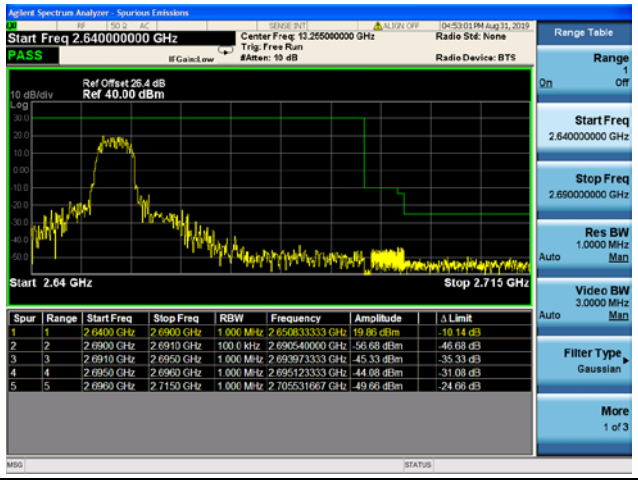
Channel	38750	1RB	Channel	38750	FULL RB



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3500 GHz	2.3600 GHz	1.000 MHz	2.359916667 GHz	25.37 dBm	-4.633 dB
2	2	2.3600 GHz	2.3610 GHz	51.00 kHz	2.360020000 GHz	-18.80 dBm	-5.796 dB
3	3	2.3610 GHz	2.3650 GHz	1.000 MHz	2.363633333 GHz	-26.39 dBm	-13.39 dB
4	4	2.3650 GHz	2.3950 GHz	1.000 MHz	2.366150000 GHz	-46.13 dBm	-6.127 dB
5	5	2.3950 GHz	2.4000 GHz	1.000 MHz	2.395825000 GHz	-49.03 dBm	-36.03 dB



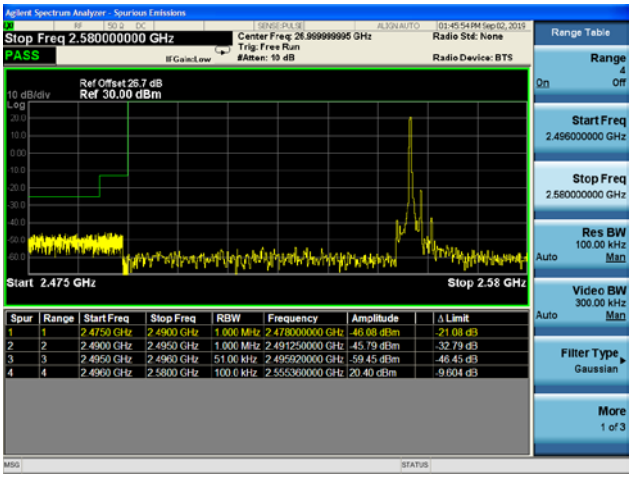
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.3500 GHz	2.3600 GHz	1.000 MHz	2.358250000 GHz	18.25 dBm	-11.75 dB
2	2	2.3600 GHz	2.3610 GHz	51.00 kHz	2.360033333 GHz	-27.86 dBm	-14.86 dB
3	3	2.3610 GHz	2.3650 GHz	1.000 MHz	2.364206667 GHz	-27.04 dBm	-14.04 dB
4	4	2.3650 GHz	2.3950 GHz	1.000 MHz	2.390100000 GHz	-49.98 dBm	-9.978 dB
5	5	2.3950 GHz	2.4000 GHz	1.000 MHz	2.395850000 GHz	-50.07 dBm	-37.07 dB

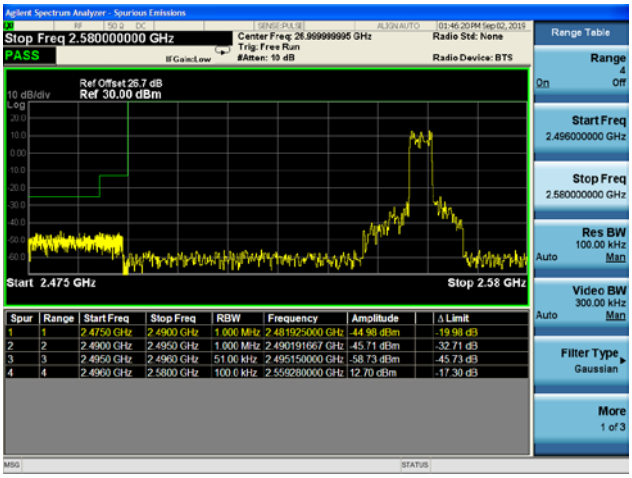
LTE Band 41					
Channel Bandwidth: 5MHz					
Channel	40265	1RB	Channel	40265	FULL RB
					
Channel Bandwidth: 5MHz					
Channel	41215	1RB	Channel	41215	FULL RB
					

LTE Band 41

Channel Bandwidth: 10MHz

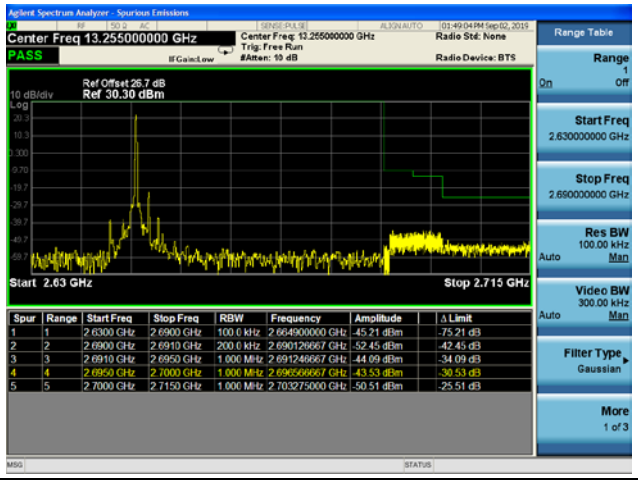
Channel	40315	1RB	Channel	40315	FULL RB

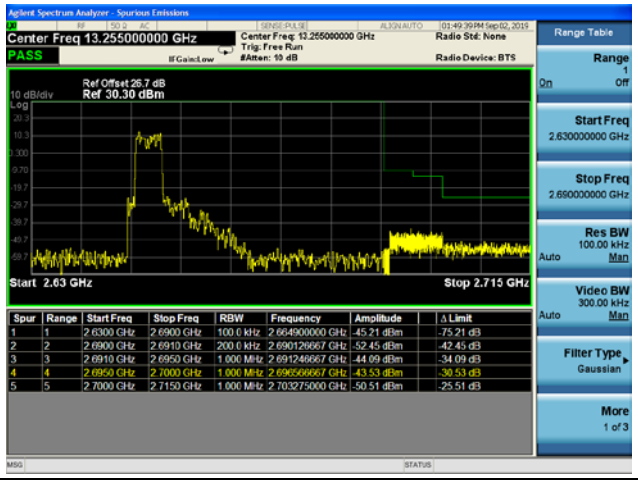




Channel Bandwidth: 10MHz

Channel	41190	1RB	Channel	41190	FULL RB

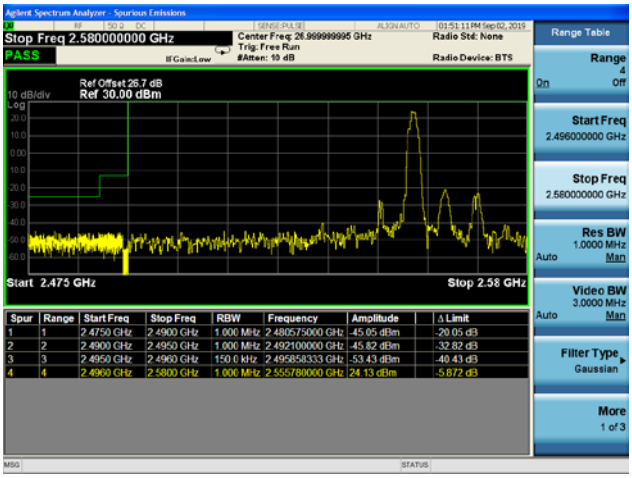


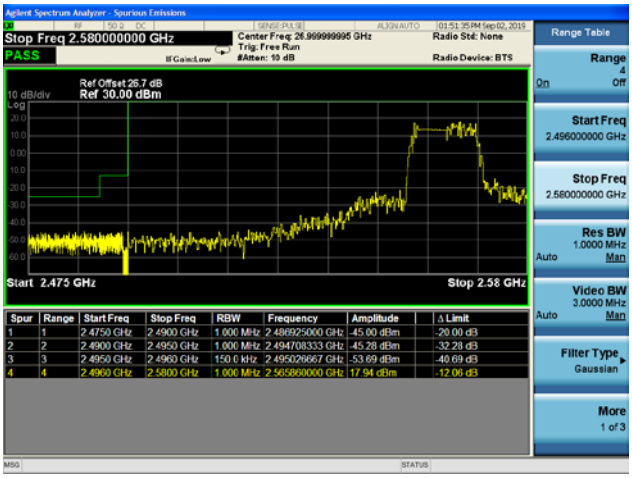


LTE Band 41

Channel Bandwidth: 15MHz

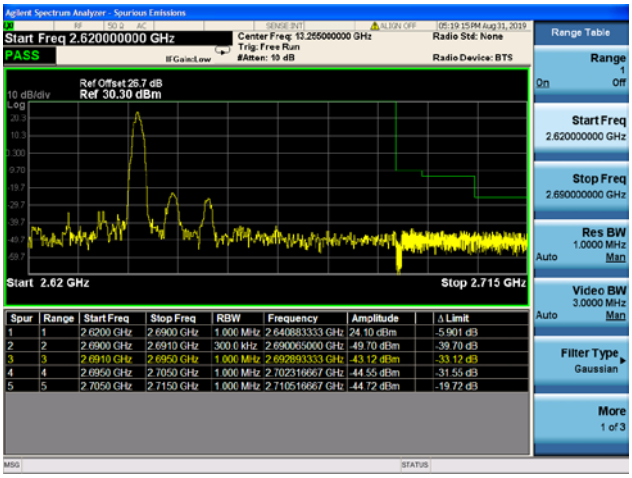
Channel	40340	1RB	Channel	40340	FULL RB

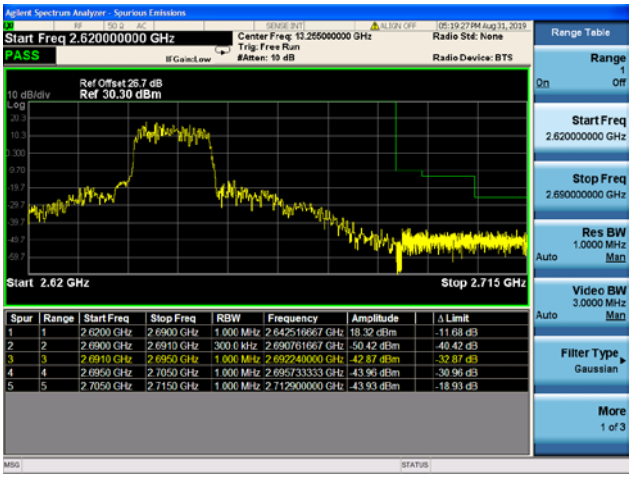




Channel Bandwidth:15MHz

Channel	41165	1RB	Channel	41165	FULL RB

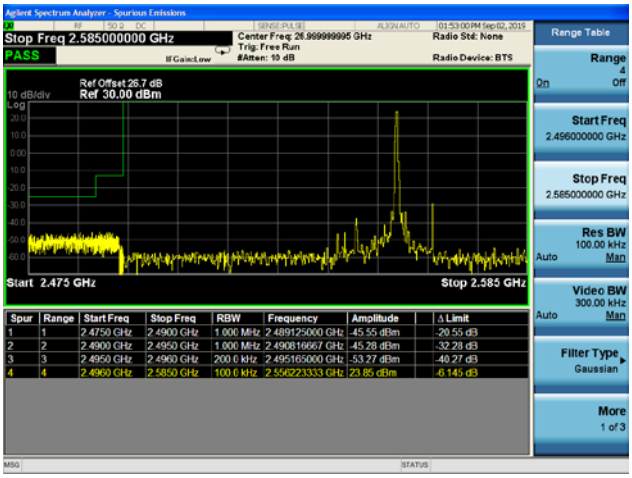


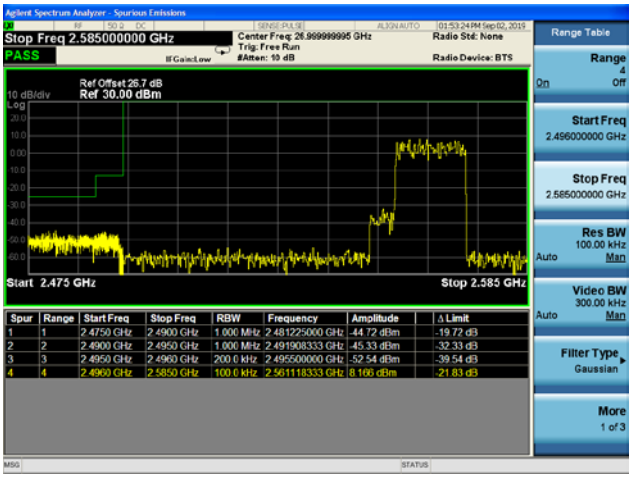


LTE Band 41

Channel Bandwidth: 20MHz

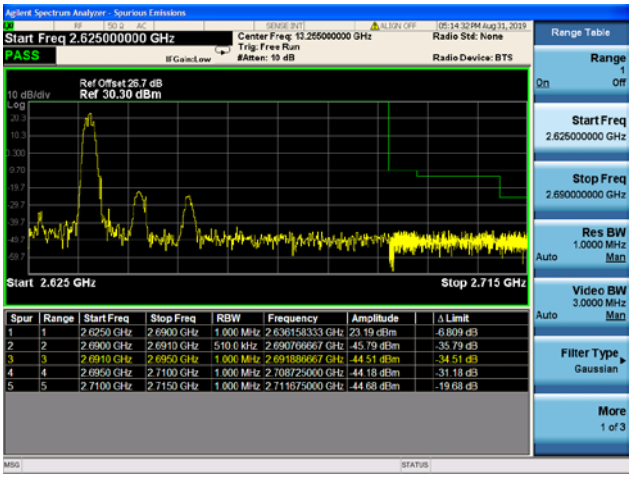
Channel	40340	1RB	Channel	40340	FULL RB

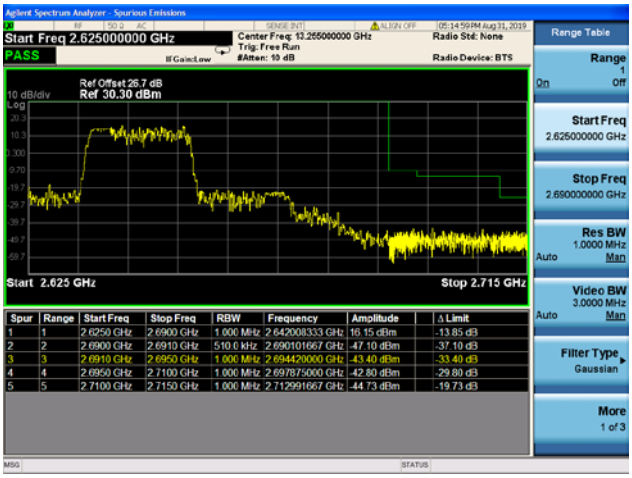




Channel Bandwidth: 20MHz

Channel	41140	1RB	Channel	41140	FULL RB





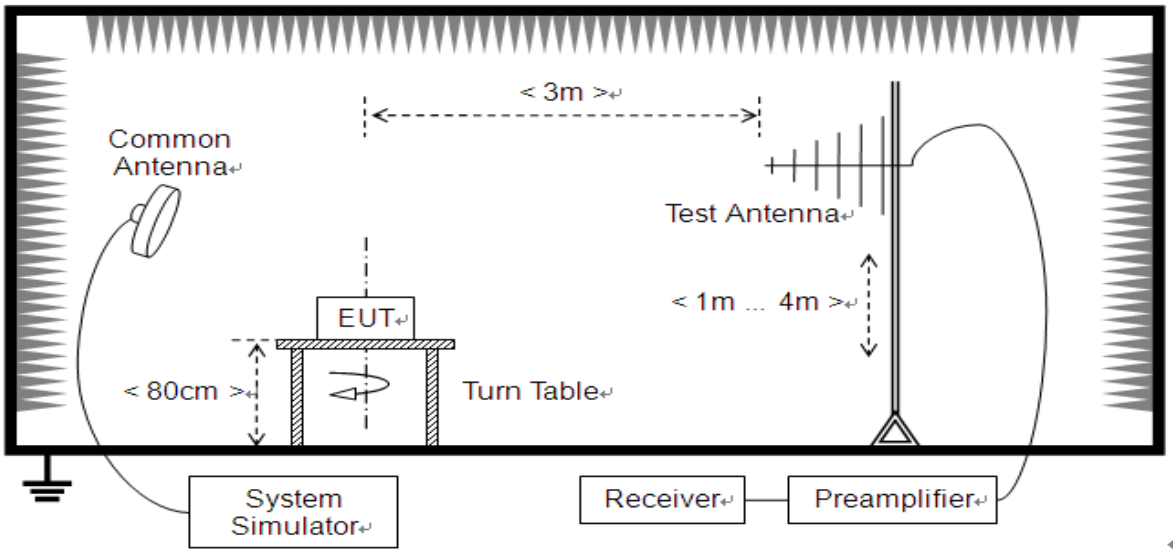
2.7. Radiated Spurious Emissions

2.7.1. Requirement

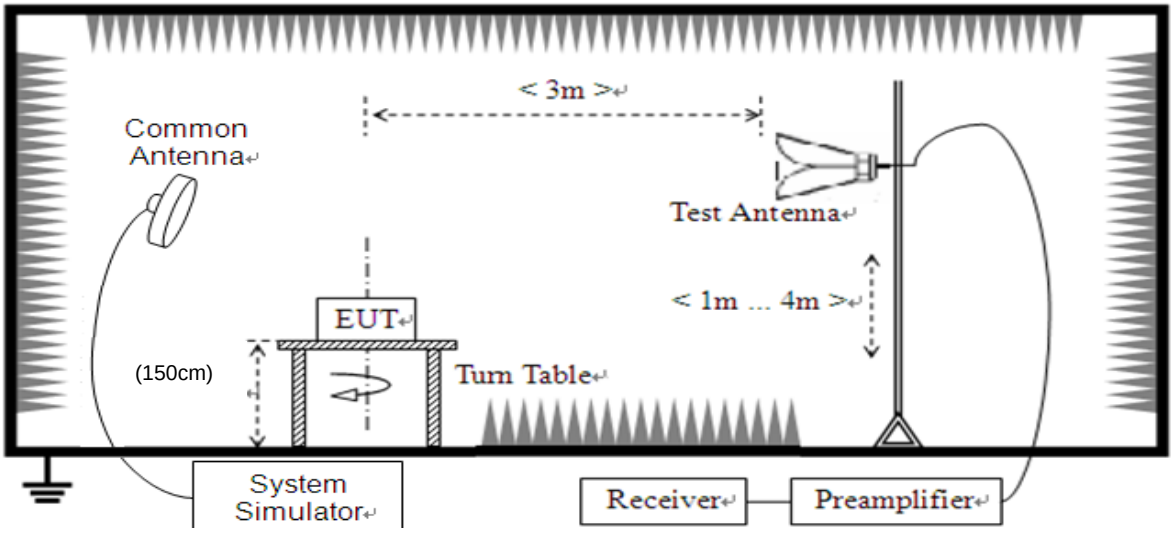
According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

Additional requirement for LTE Band 7/41:
The power of any emission outside of the authorized operating frequency ranges must beattenuated 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 to1GHz)



(For the test frequency above 1GHz)

The EUTis 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:

$A_{SUBST} = P_{SUBST_TX} - P_{SUBST_RX} - L_{SUBST_CABLES} + G_{SUBST_TX_ANT}$

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

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

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST_TX_ANT}$ is substitution antenna gain.

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

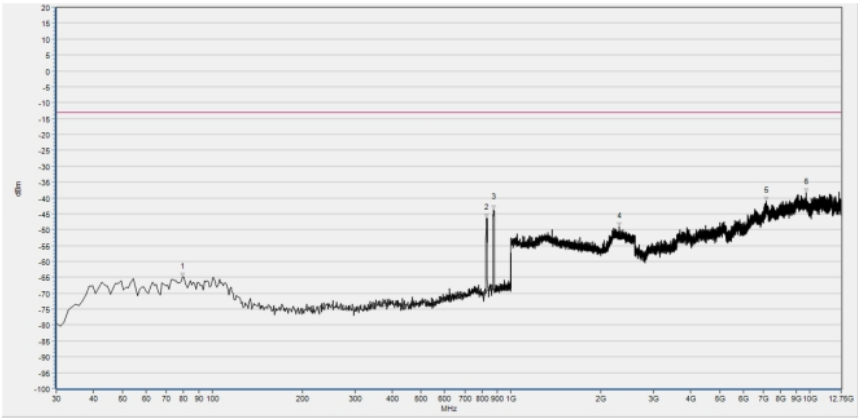
During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT}.

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

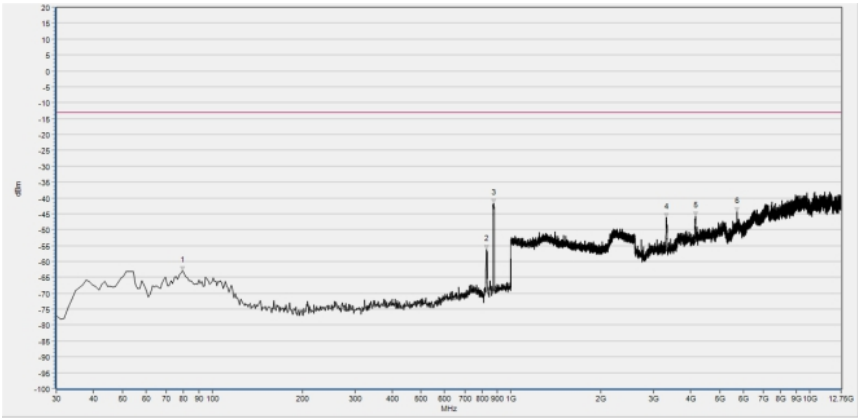
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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

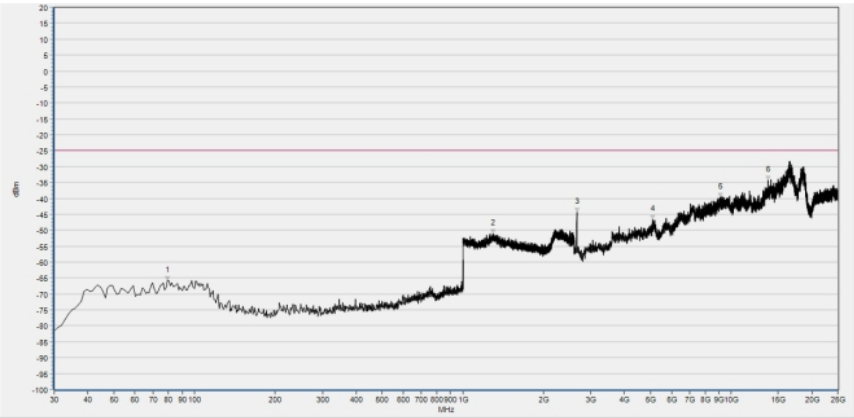


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	79.470	-64.82	-13.00	Horizontal	PASS
2	827.340	-46.29	-13.00	Horizontal	NA
3	874.870	-43.76	-13.00	Horizontal	NA
4	2304.202	-48.95	-13.00	Horizontal	PASS
5	7157.256	-40.93	-13.00	Horizontal	PASS
6	9721.058	-38.25	-13.00	Horizontal	PASS

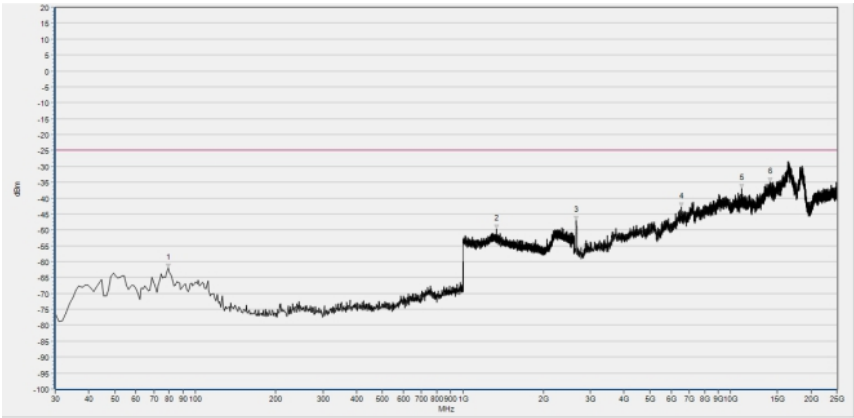


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	79.470	-63.01	-13.00	Vertical	PASS
2	826.370	-56.23	-13.00	Vertical	NA
3	872.930	-41.60	-13.00	Vertical	NA
4	3312.475	-46.13	-13.00	Vertical	PASS
5	4148.618	-45.75	-13.00	Vertical	PASS
6	5697.236	-44.44	-13.00	Vertical	PASS

LTE Band 7 20MHz BW, Mid Channel, QPSK

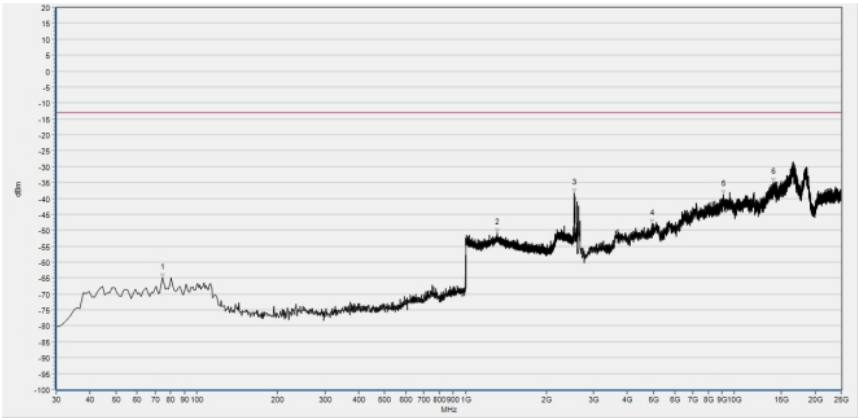


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	79.470	-65.80	-13.00	Horizontal	PASS
2	1296.439	-51.05	-13.00	Horizontal	PASS
3	2661.102	-44.35	-13.00	Horizontal	NA
4	5097.036	-46.56	-13.00	Horizontal	PASS
5	9125.696	-39.73	-13.00	Horizontal	PASS
6	13724.641	-34.39	-13.00	Horizontal	PASS

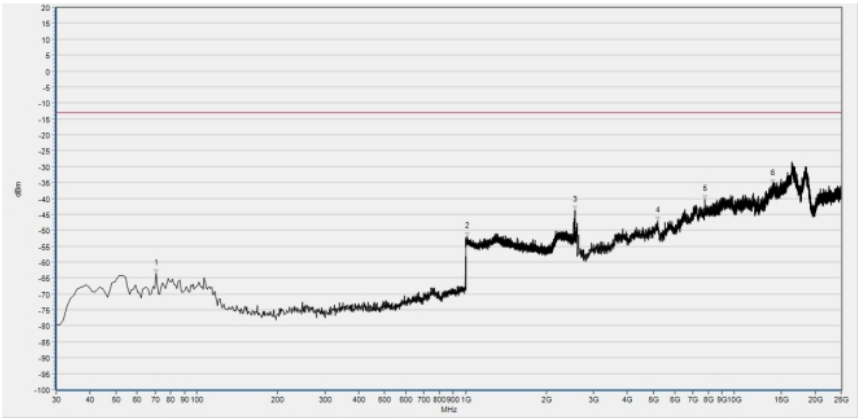


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	79.470	-62.05	-13.00	Vertical	PASS
2	1333.573	-49.81	-13.00	Vertical	PASS
3	2652.955	-47.04	-13.00	Vertical	NA
4	6567.558	-42.81	-13.00	Vertical	PASS
5	11015.785	-36.92	-13.00	Vertical	PASS
6	14083.106	-34.98	-13.00	Vertical	PASS

LTE Band 38 20MHz BW, Mid Channel, QPSK

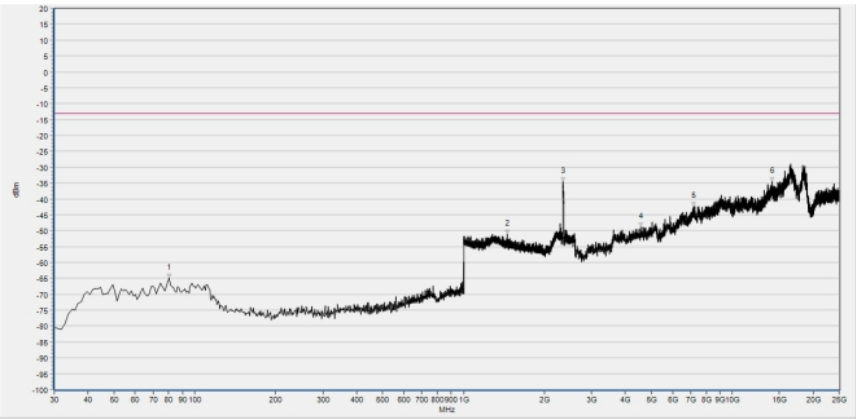


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	74.620	-65.03	-13.00	Horizontal	PASS
2	1310.524	-50.91	-13.00	Horizontal	PASS
3	2543.017	-38.38	-13.00	Horizontal	NA
4	4938.171	-48.03	-13.00	Horizontal	PASS
5	9117.549	-38.76	-13.00	Horizontal	PASS
6	13993.490	-34.95	-13.00	Horizontal	PASS

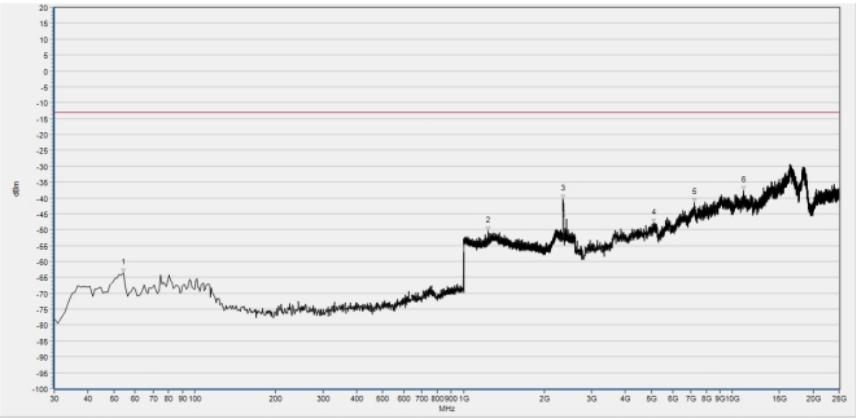


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	70.740	-63.65	-13.00	Vertical	PASS
2	1016.647	-52.05	-13.00	Vertical	PASS
3	2551.981	-43.61	-13.00	Vertical	NA
4	5178.505	-47.01	-13.00	Vertical	PASS
5	7773.304	-40.31	-13.00	Vertical	PASS
6	13903.873	-35.36	-13.00	Vertical	PASS

LTE Band 40 20MHz BW, Low Channel, QPSK

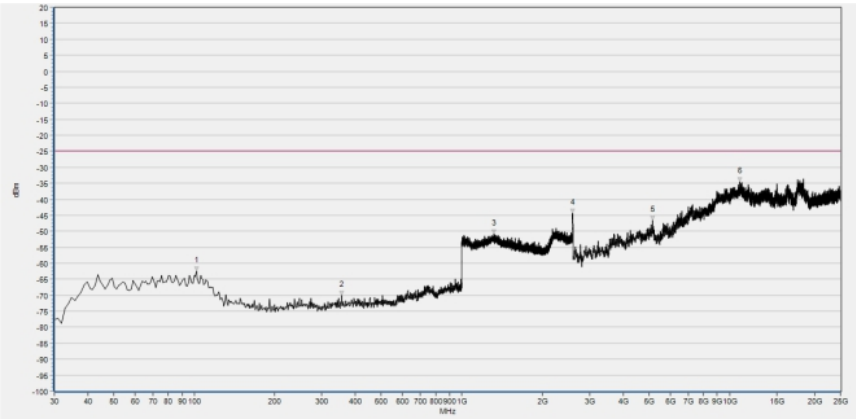


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	80.440	-65.02	-13.00	Horizontal	PASS
2	1457.143	-51.09	-13.00	Horizontal	PASS
3	2349.020	-34.55	-13.00	Horizontal	NA
4	4567.485	-48.84	-13.00	Horizontal	PASS
5	7166.358	-42.44	-13.00	Horizontal	PASS
6	14107.547	-34.54	-13.00	Horizontal	PASS

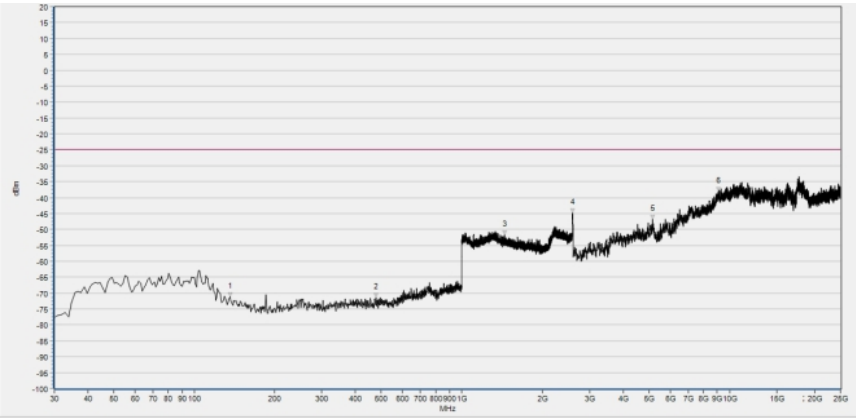


No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	54.250	-63.61	-13.00	Vertical	PASS
2	1234.334	-50.44	-13.00	Vertical	PASS
3	2350.940	-40.27	-13.00	Vertical	NA
4	5101.109	-47.94	-13.00	Vertical	PASS
5	7231.533	-41.51	-13.00	Vertical	PASS
6	11007.638	-37.70	-13.00	Vertical	PASS

LTE Band 41 20MHz BW, Low Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	101.852	-62.42	-25.00	Horizontal	PASS
2	356.246	-70.15	-25.00	Horizontal	PASS
3	1320.640	-50.82	-25.00	Horizontal	PASS
4	2590.930	-44.40	-25.00	Horizontal	NA
5	5174.515	-46.65	-25.00	Horizontal	PASS
6	10927.385	-34.60	-25.00	Horizontal	PASS



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	135.836	-71.12	-25.00	Vertical	PASS
2	478.589	-71.48	-25.00	Vertical	PASS
3	1446.549	-51.74	-25.00	Vertical	PASS
4	2594.665	-44.81	-25.00	Vertical	NA
5	5165.153	-46.82	-25.00	Vertical	PASS
6	9087.778	-38.11	-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	±2.22 dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77 dB
Band Edge	±2.77 dB
Equivalent Isotropic Radiated Power	±2.22 dB
Radiated Spurious Emissions	±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

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	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 C63.10-2013and 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	2019.04.16	2020.04.15
Attenuator 1	(N/A.)	10dB	Resnet	2019.04.16	2020.04.15
Attenuator 2	(N/A.)	3dB	Resnet	2019.04.16	2020.04.15
EXA Signal Analzyer	MY53470836	N9010A	Agilent	2018.11.06	2019.11.05
USB Power Sensor	MY54210011	U2021XA	Agilent	2019.04.16	2019.04.15
System Simulator	152038	CMW500	R&S	2019.05.08	2020.05.07
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	2019.04.16	2020.04.15
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	2019.05.08	2020.05.07
Receiver	MY54130016	N9038A	Agilent	2019.05.18	2020.05.17
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.18	2020.05.17
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2019.08.06	2020.08.05
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.08.02	2020.08.01
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	MA02	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.07
18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.07
Notch Filter	N/A	WRCGV -LTE B2	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B4	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B5	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B7	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B12	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B17	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B25	Wainwright	2018.12.01	2019.11.30

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due
Notch Filter	N/A	WRCGV -LTE B26	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B41	Wainwright	2018.12.01	2019.11.30
Anechoic Chamber	N/A	9m*6m*6m	CRT	2017.11.19	2020.11.18

END OF REPORT