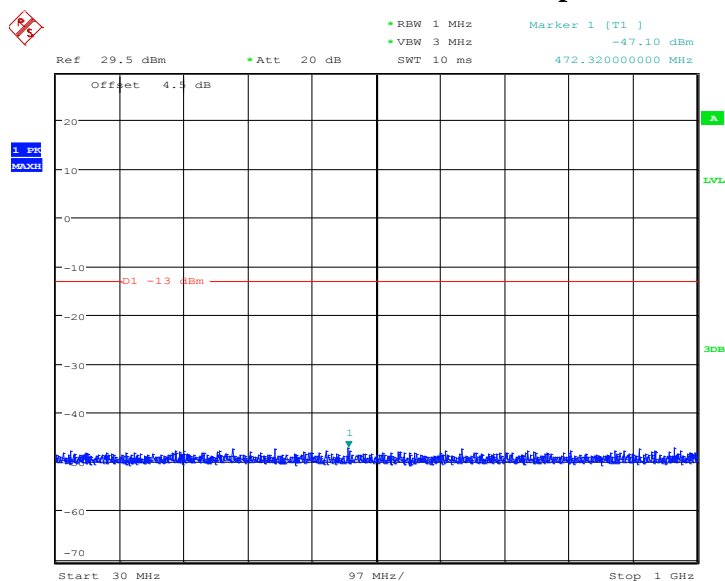


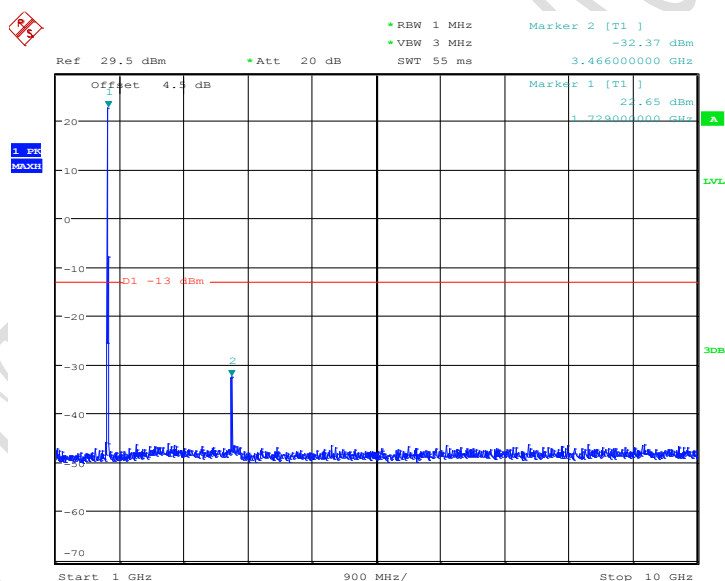
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:42:12

3MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz,30MHz to 1GHz

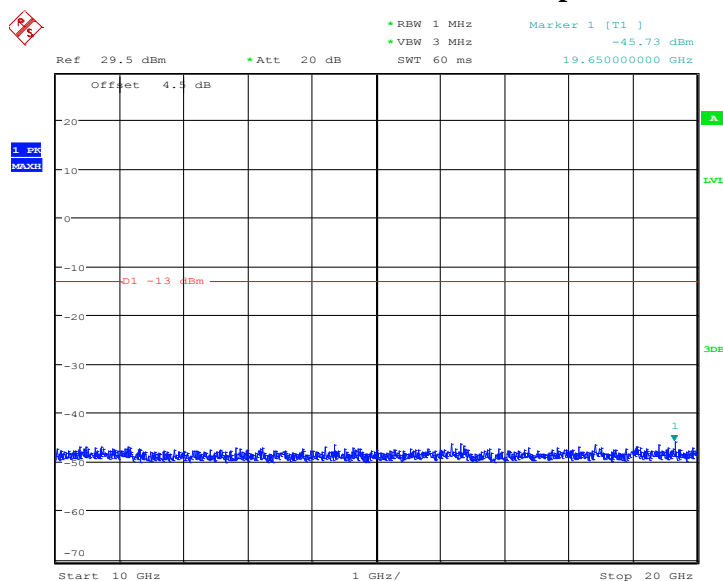
Note: The strong emission shown in each case is the carrier signal.



Date: 5.JUL.2016 16:42:40

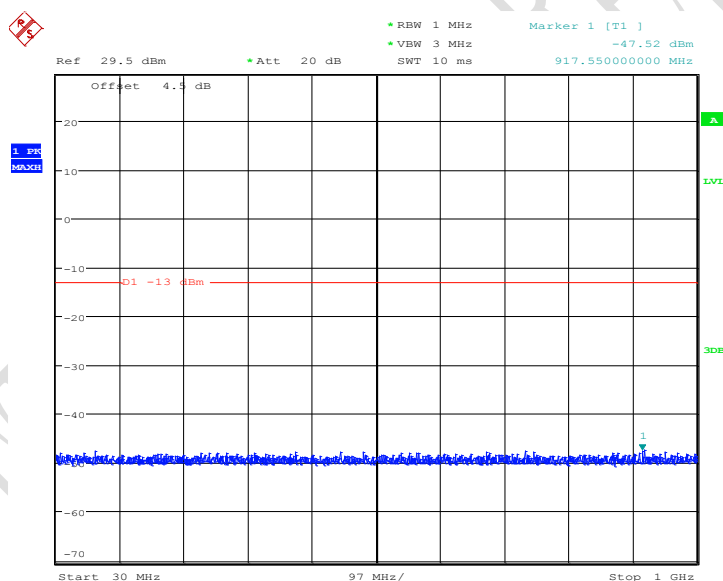
3MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz,1GHz to 10GHz

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:42:55

3MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 10GHz to 20GHz

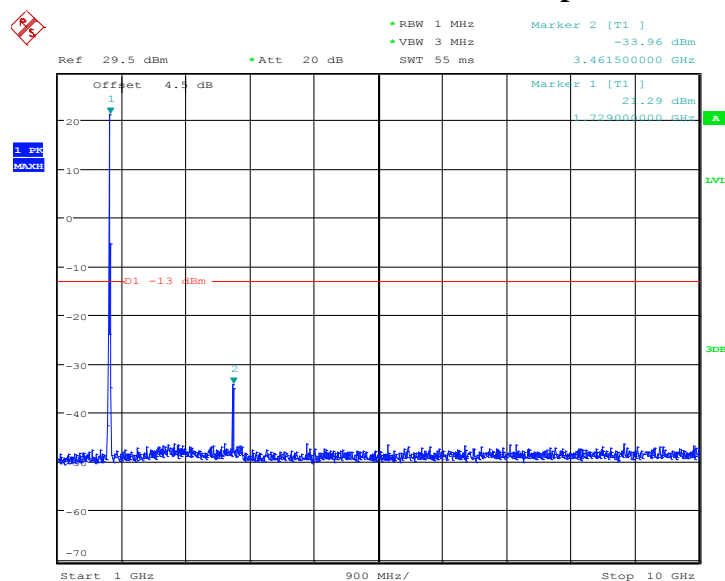


Date: 5.JUL.2016 16:43:20

5MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 30MHz to 1GHz

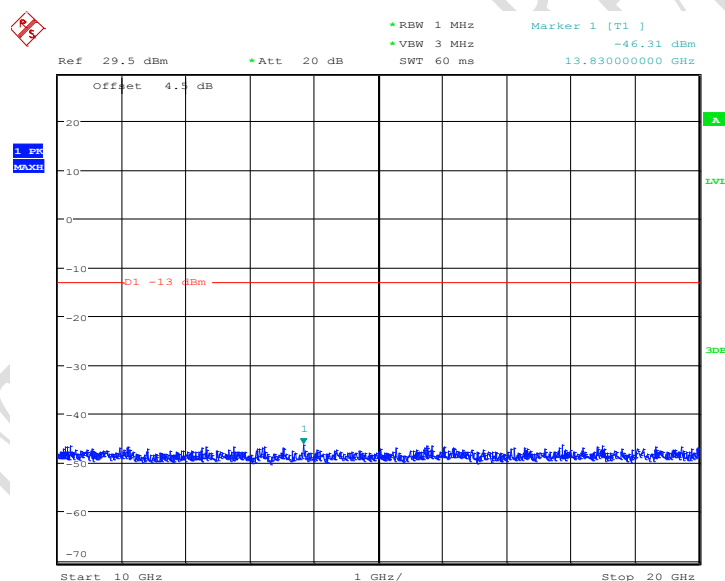
Note: The strong emission shown in each case is the carrier signal.

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:43:37

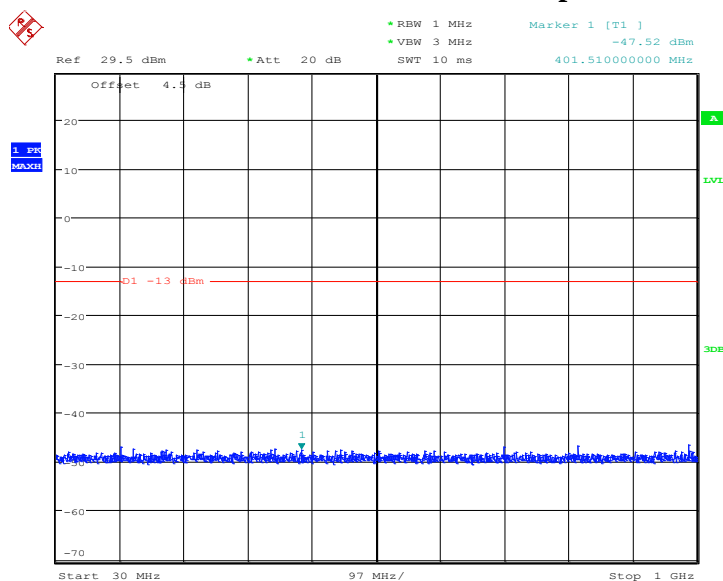
5MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 1GHz to 10GHz



Date: 5.JUL.2016 16:43:53

5MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 10GHz to 20GHz

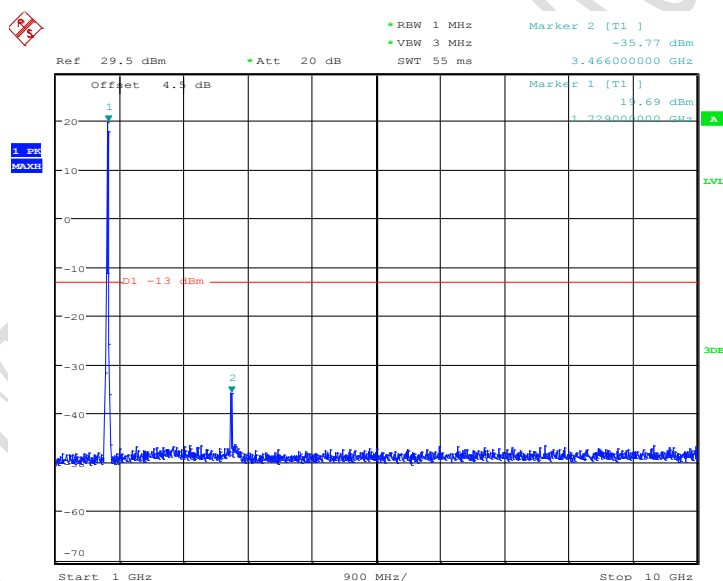
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:44:34

10MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz,30MHz to 1GHz

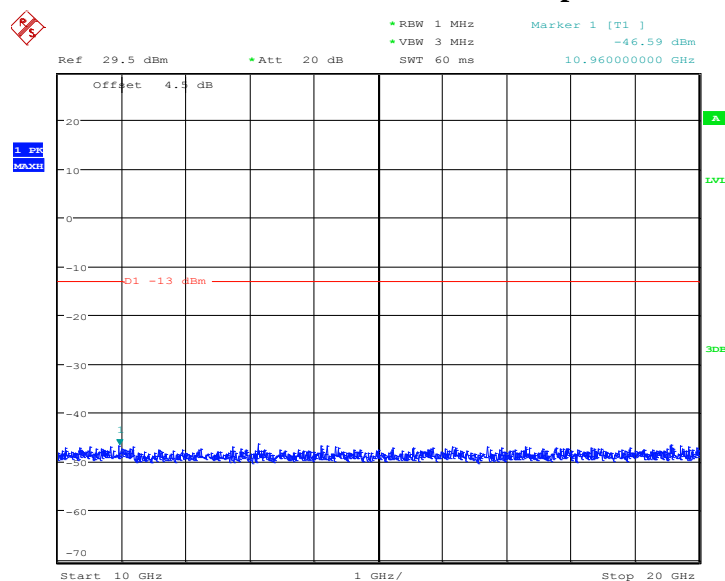
Note: The strong emission shown in each case is the carrier signal.



Date: 5.JUL.2016 16:44:50

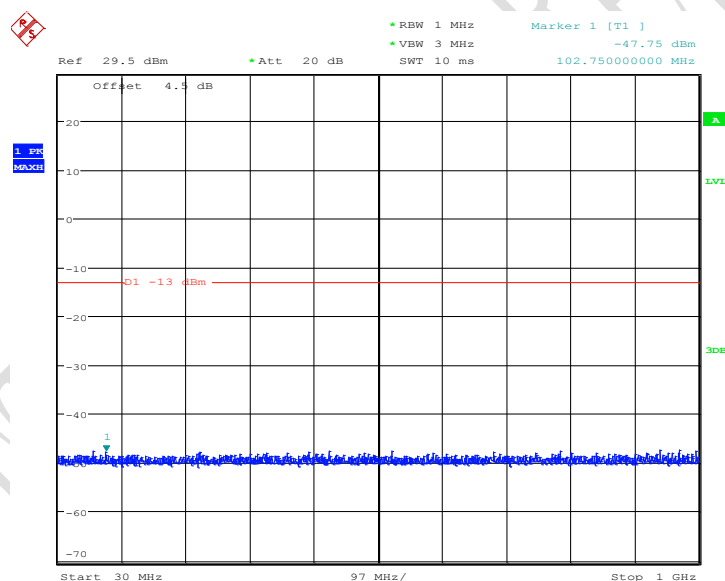
10MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz,1GHz to 10GHz

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:45:04

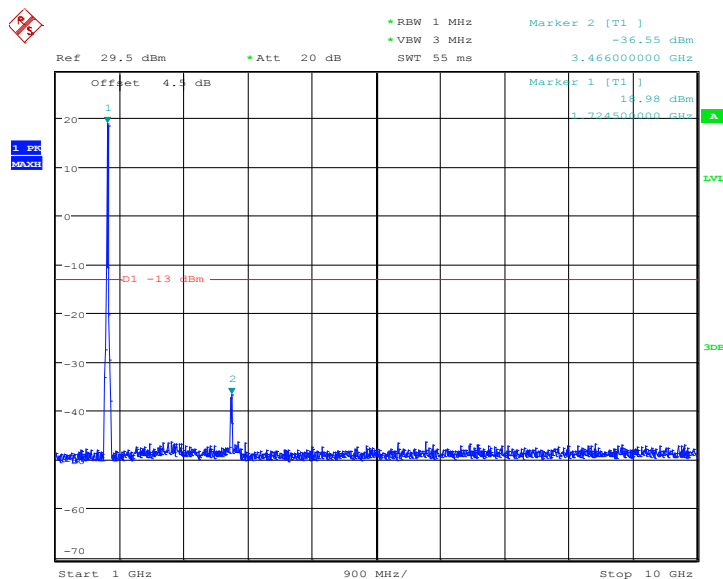
10MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 10GHz to 20GHz



Date: 5.JUL.2016 16:45:26

15MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 30MHz to 1GHz

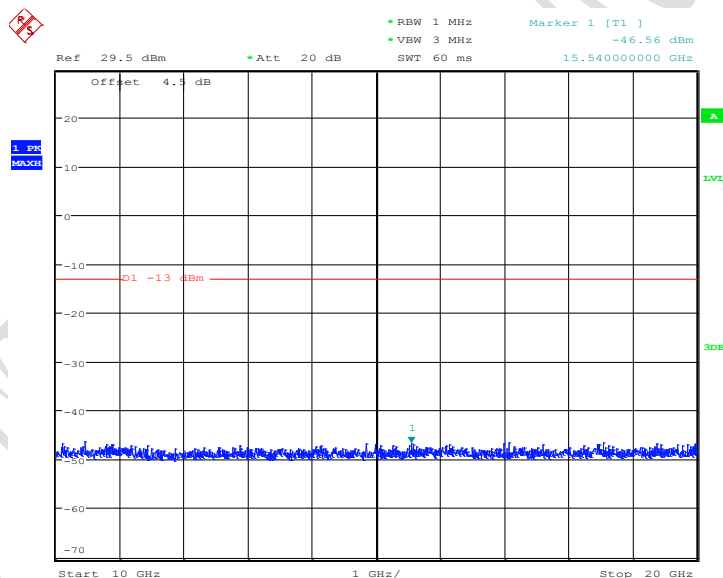
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:45:41

15MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 1GHz to 10GHz

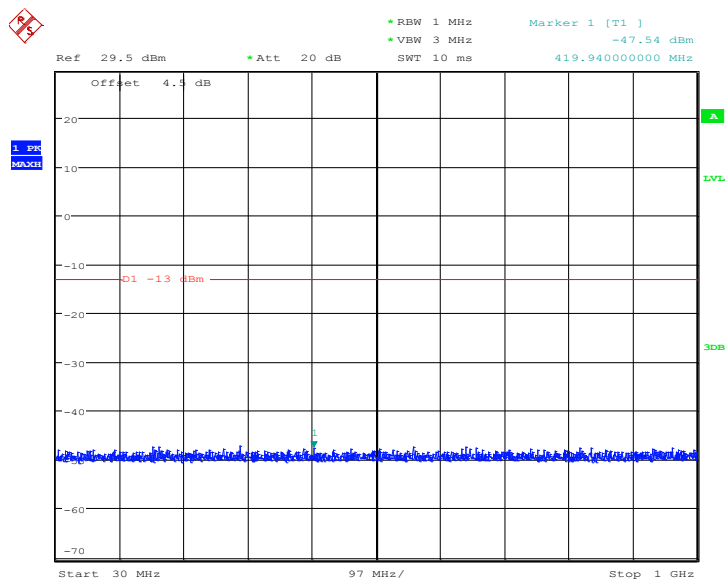
Note: The strong emission shown in each case is the carrier signal.



Date: 5.JUL.2016 16:45:54

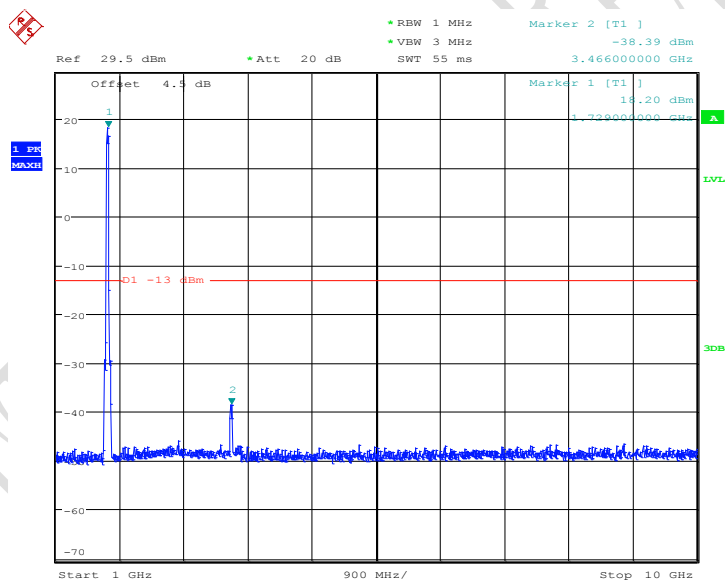
15MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 10GHz to 20GHz

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:46:23

20MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 30MHz to 1GHz

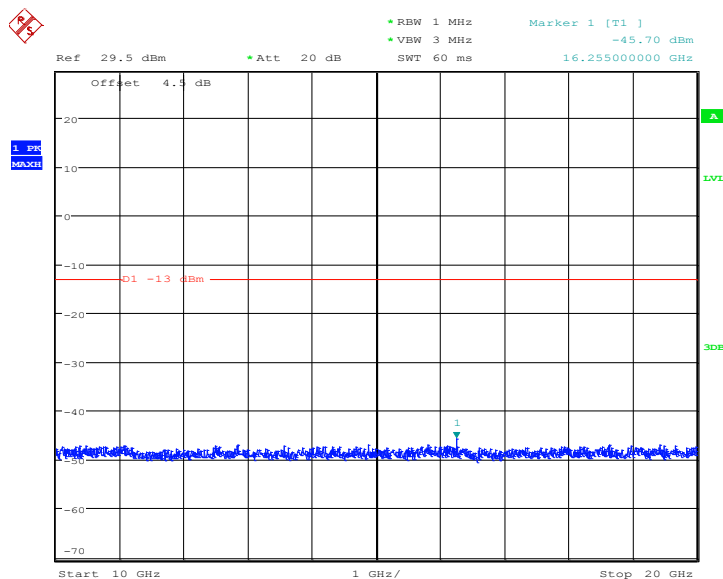


Date: 5.JUL.2016 16:46:38

20MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 1GHz to 10GHz

Note: The strong emission shown in each case is the carrier signal.

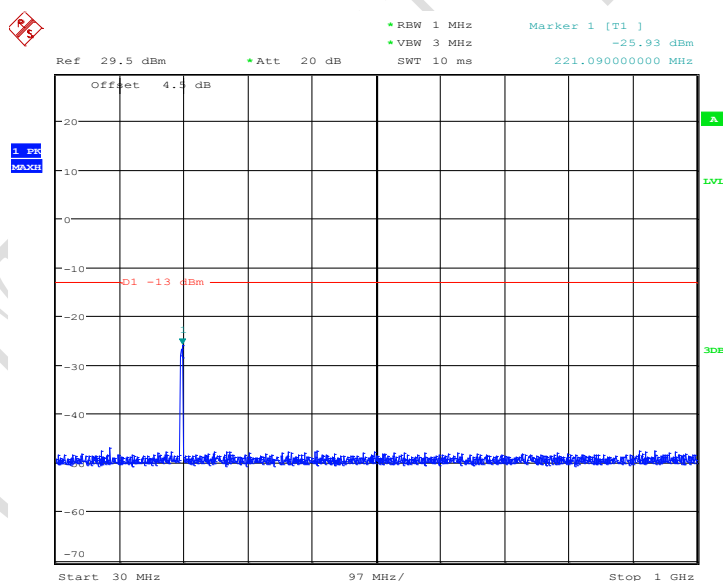
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:46:53

20MHz bandwidth QPSK Mode Middle Channel, 1732.5 MHz, 10GHz to 20GHz

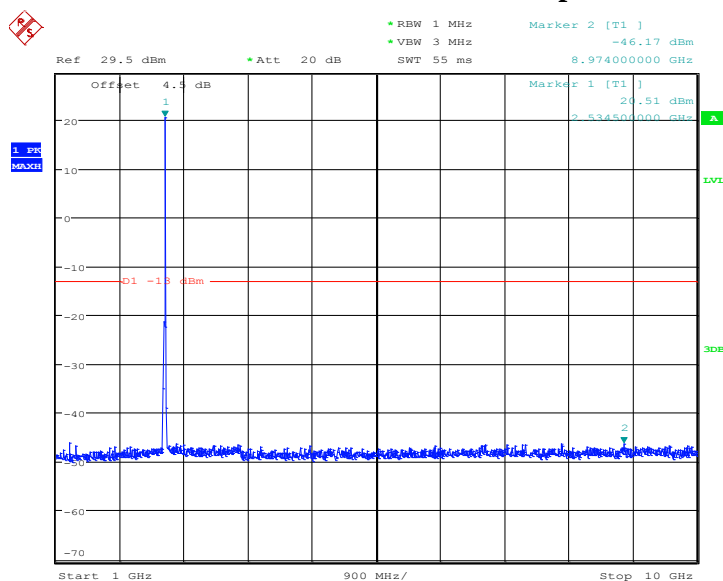
5.3.5 LTE B7 Conducted Spurious Emission Results



Date: 5.JUL.2016 16:55:08

5MHz bandwidth QPSK Mode Middle channel, 2535 MHz, 30MHz to 1GHz

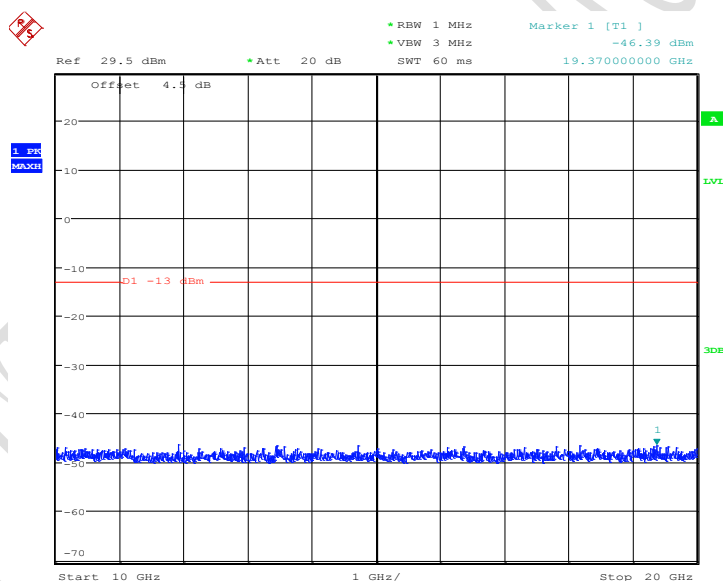
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:55:42

5MHz bandwidth QPSK Mode Middle channel, 2535 MHz, 1GHz to 10GHz

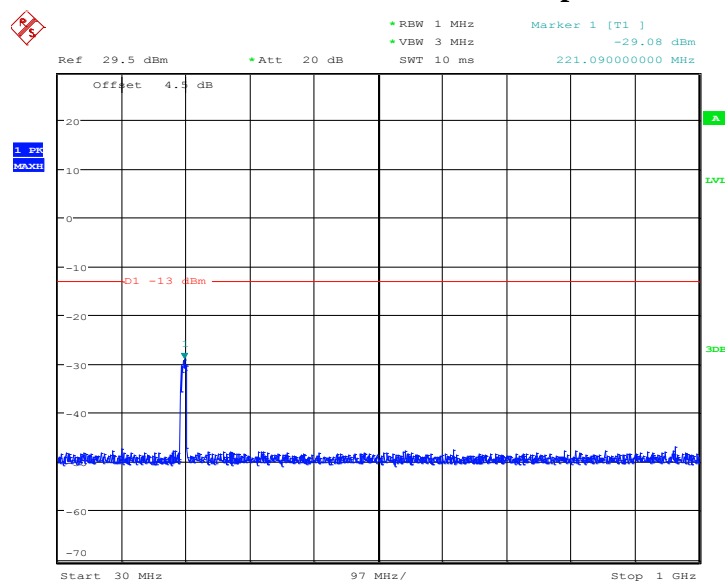
Note: The strong emission shown in each case is the carrier signal.



Date: 5.JUL.2016 16:55:58

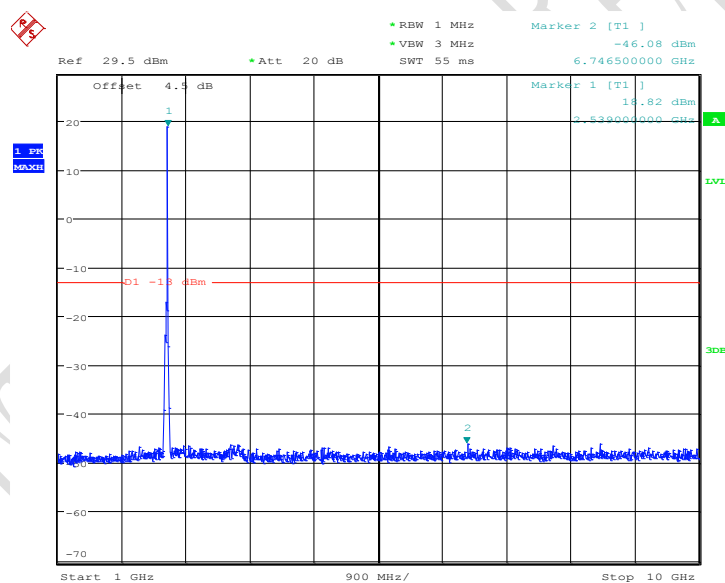
5MHz bandwidth QPSK Mode Middle channel, 2535 MHz, 10GHz to 20GHz

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:56:20

10MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 30MHz to 1GHz



Date: 5.JUL.2016 16:56:41

10MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 1GHz to 10GHz

Note: The strong emission shown in each case is the carrier signal.

Ref 29.5 dBm Att 20 dB RBW 1 MHz VBW 3 MHz SWT 60 ms Marker 1 [T1] -45.94 dBm 19.28500000 GHz

Offset 4.5 dB

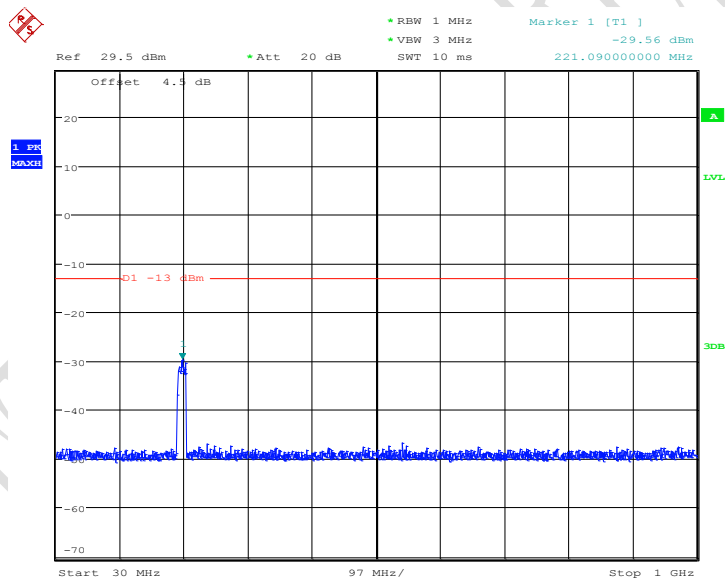
1.58 MHz

Offset -13 dBm

1

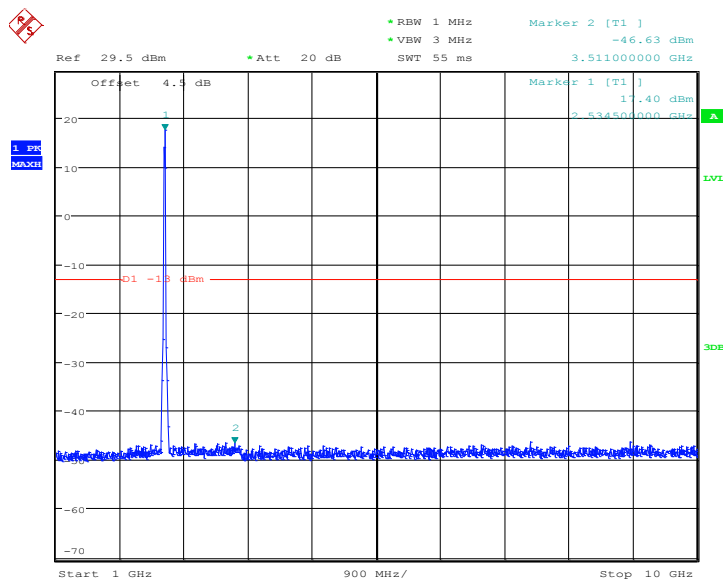
Start 10 GHz 1 GHz/ Stop 20 GHz

10MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 10GHz to 20GHz



15MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 30MHz to 1GHz

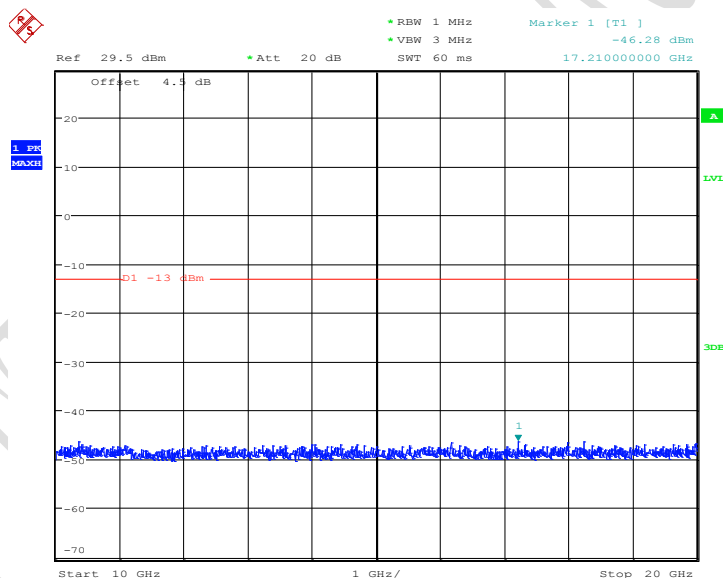
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:57:41

15MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 1GHz to 10GHz

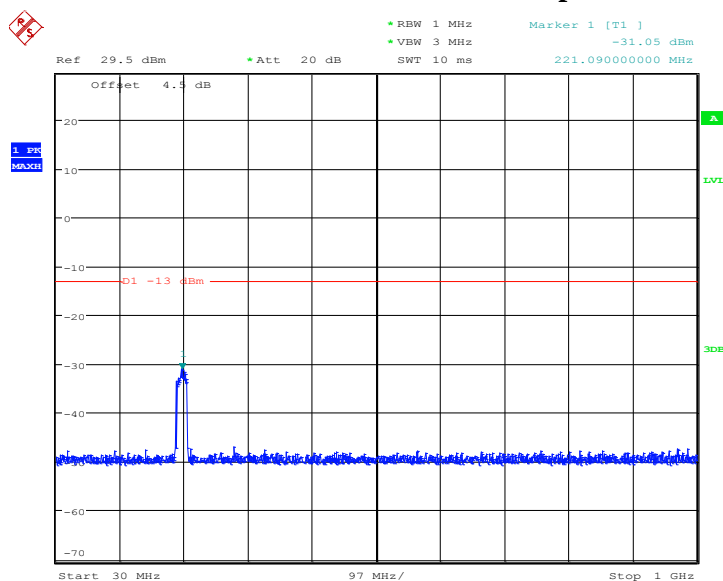
Note: The strong emission shown in each case is the carrier signal.



Date: 5.JUL.2016 16:57:56

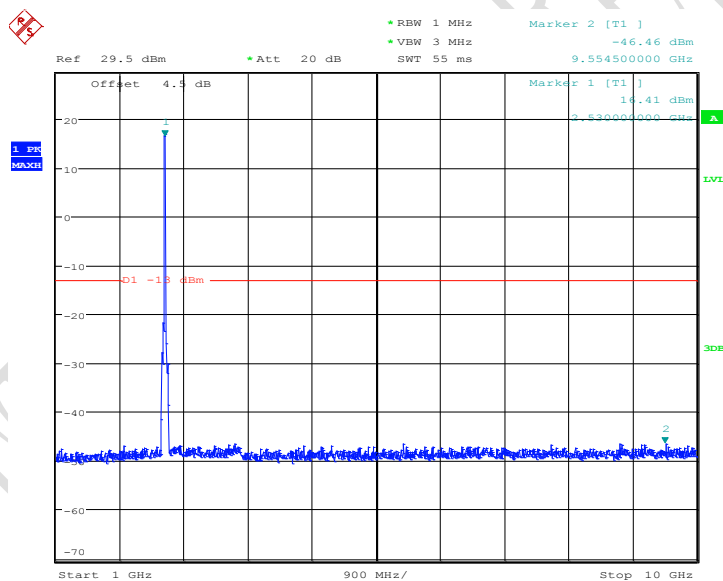
15MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 10GHz to 20GHz

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:58:16

20MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 30MHz to 1GHz

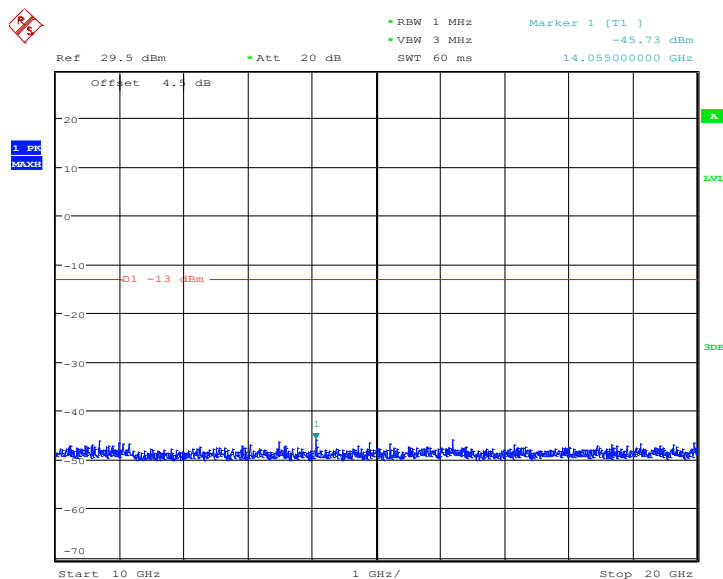


Date: 5.JUL.2016 16:58:33

20MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 1GHz to 10GHz

Note: The strong emission shown in each case is the carrier signal.

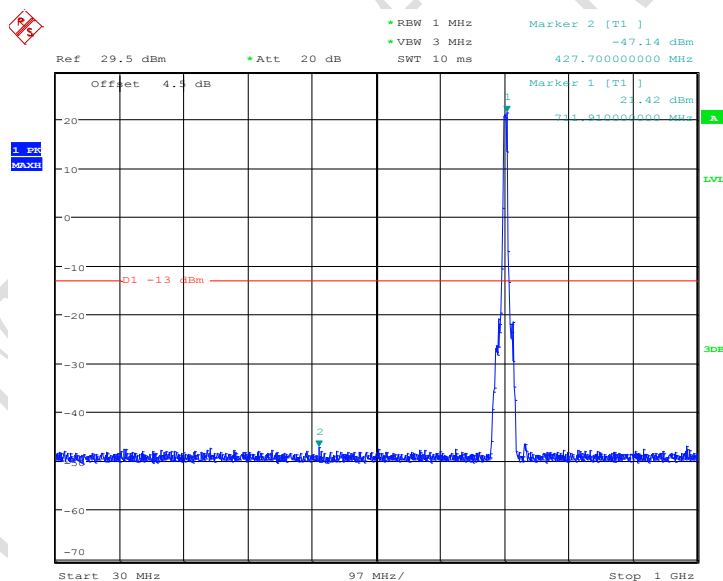
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 16:58:46

20MHz bandwidth QPSK Mode Middle Channel, 2535 MHz, 10GHz to 20GHz

5.3.6 LTE B17 Conducted Spurious Emission Results

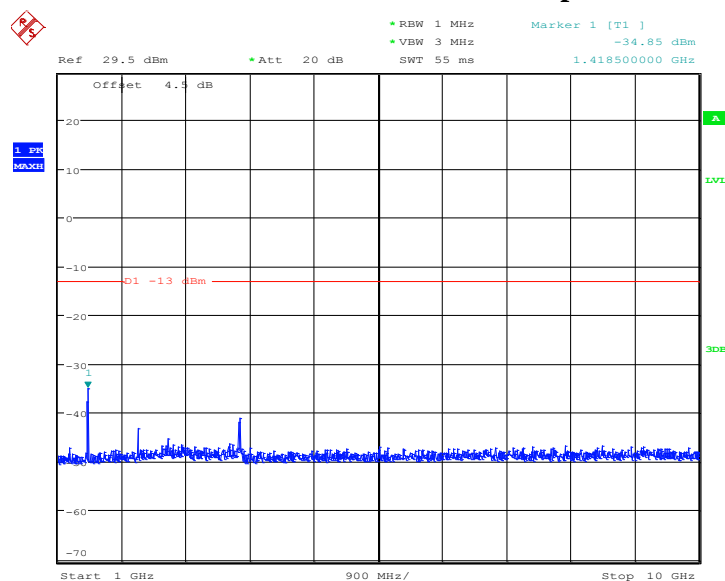


Date: 5.JUL.2016 17:05:04

5MHz bandwidth QPSK Mode Middle channel, 710 MHz, 30MHz to 1GHz

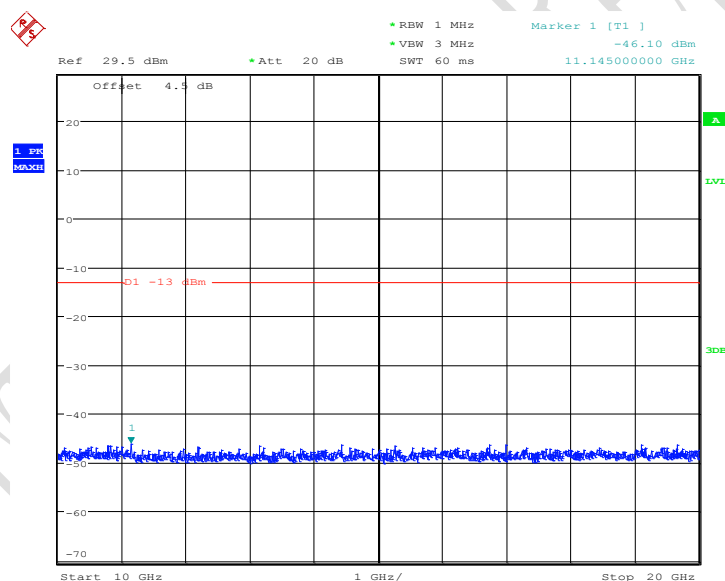
Note: The strong emission shown in each case is the carrier signal.

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 17:05:19

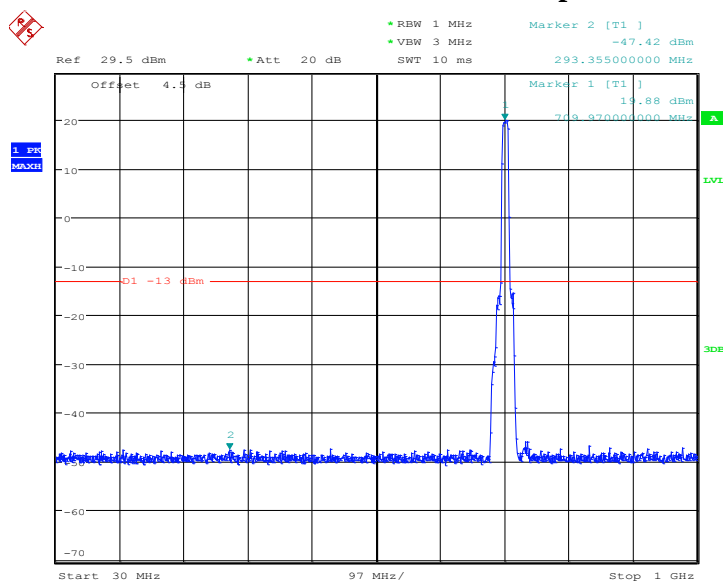
5MHz bandwidth QPSK Mode Middle channel, 710 MHz,1GHz to 10GHz



Date: 5.JUL.2016 17:05:39

5MHz bandwidth QPSK Mode Middle channel, 710 MHz,10GHz to 20GHz

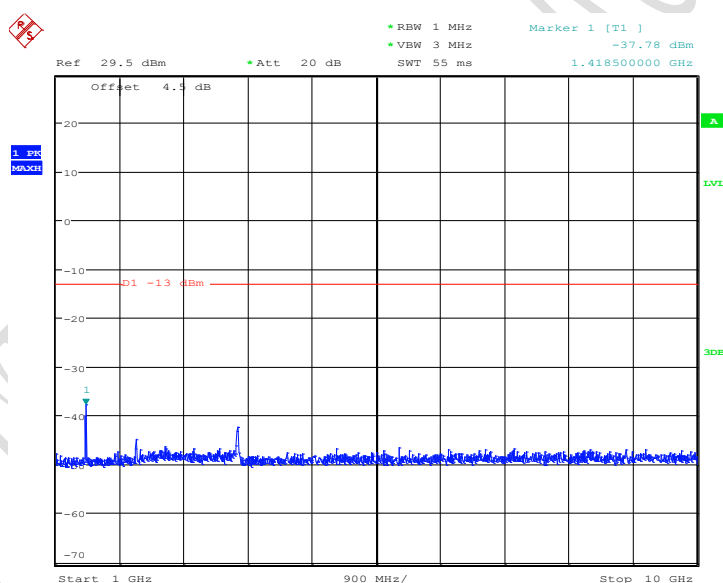
Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 17:06:07

10MHz bandwidth QPSK Mode Middle Channel, 710 MHz, 30MHz to 1GHz

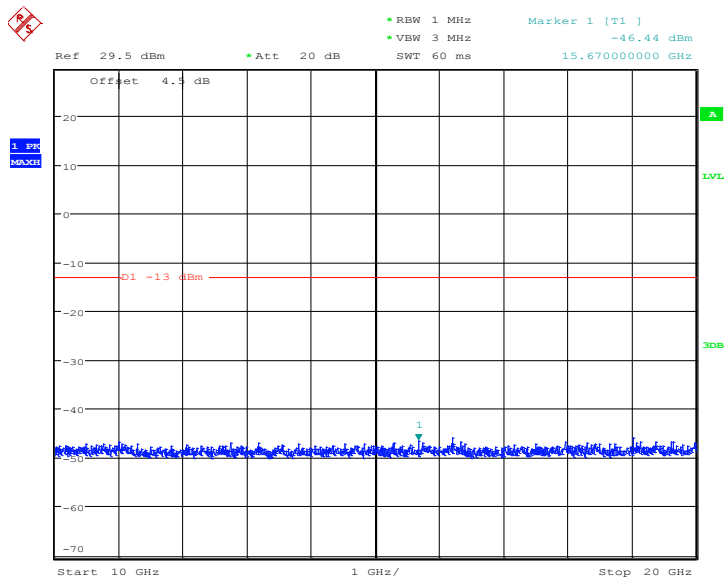
Note: The strong emission shown in each case is the carrier signal.



Date: 5.JUL.2016 17:06:23

10MHz bandwidth QPSK Mode Middle Channel, 710 MHz, 1GHz to 10GHz

Report No.: B16X50266-WWAN-Rev3



Date: 5.JUL.2016 17:06:37

10MHz bandwidth QPSK Mode Middle Channel, 710 MHz, 10GHz to 20GHz

5.4 Radiated Spurious Emission

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	S9/9: 358067070001059
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of band emissions. 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.

According to Part 24.238 (a), i.e., Out of band emissions. 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, so the limit level is:

$P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB

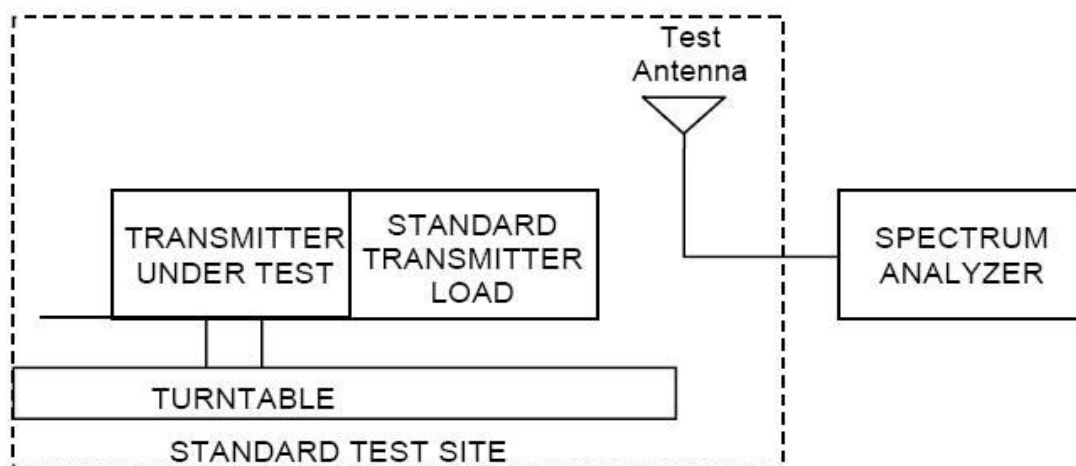
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

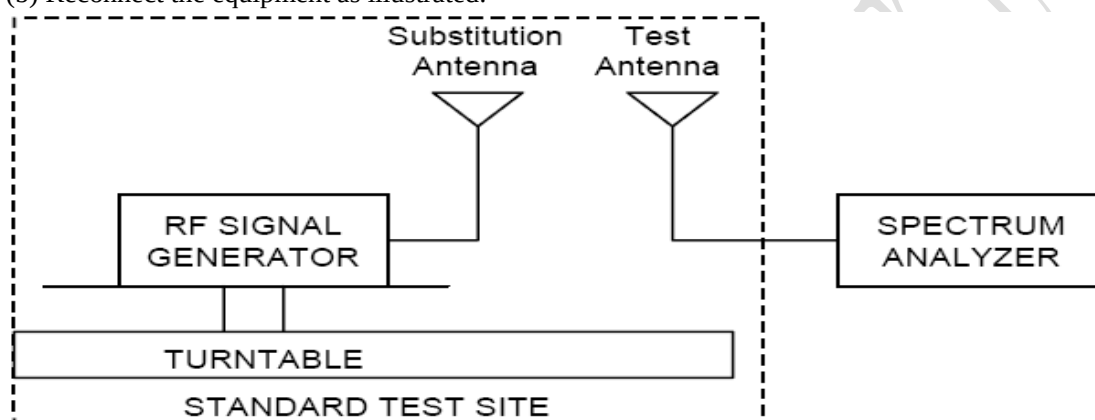
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-C: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above.



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and

P_g is the generator output power into the substitution antenna.

Report No.: B16X50266-WWAN-Rev3

5.4.1 GSM850 GMSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1673.2	-36.24	4.7	9.4	-36.24	V
2509.8	-39.12	5.9	10.6	-39.12	V
3346.4	-52.34	6.9	12.6	-52.34	V
4183.0	-53.48	7.8	12.6	-53.48	V
5019.6	-53.89	7.1	12.7	-53.89	V
1673.2	-35.07	4.7	9.4	-30.37	H
2509.8	-38.98	5.9	10.6	-34.28	H
3346.4	-50.12	6.9	12.6	-44.42	H
4183.0	-51.36	7.8	12.6	-46.56	H
5019.6	-52.78	7.1	12.7	-47.18	H

5.4.2 GSM850 8PSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1673.2	-38.01	4.7	9.4	-33.31	V
2509.8	-38.23	5.9	10.6	-33.53	V
3346.4	-54.32	6.9	12.6	-48.62	V
4183.0	-54.89	7.8	12.6	-50.09	V
5019.6	-55.03	7.1	12.7	-49.43	V
1673.2	-36.58	4.7	9.4	-31.88	H
2509.8	-39.06	5.9	10.6	-34.36	H
3346.4	-51.36	6.9	12.6	-45.66	H
4183.0	-52.71	7.8	12.6	-47.91	H
5019.6	-53.33	7.1	12.7	-47.73	H

5.4.3 PCS1900 GMSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3760.0	-50.24	7.4	12.6	-45.04	V
5640.0	-50.68	1.8	13.1	-39.38	V
7520.0	-51.26	0.9	11.7	-40.46	V
9400.0	-51.03	0.8	11.9	-39.93	V
11280.0	-52.36	0.3	11.5	-41.16	V
3760.0	-50.14	7.4	12.6	-44.94	H
5640.0	-49.33	1.8	13.1	-38.03	H
7520.0	-51.26	0.9	11.7	-40.46	H
9400.0	-55.36	0.8	11.9	-44.26	H
11280.0	-56.37	0.3	11.5	-45.17	H

5.4.4 PCS1900 8PSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3760.0	-50.36	7.4	12.6	-45.16	V
5640.0	-50.12	1.8	13.1	-38.82	V
7520.0	-50.88	0.9	11.7	-40.08	V
9400.0	-51.36	0.8	11.9	-40.26	V
11280.0	-51.48	0.3	11.5	-40.28	V
3760.0	-50.33	7.4	12.6	-45.13	H
5640.0	-50.01	1.8	13.1	-38.71	H
7520.0	-49.68	0.9	11.7	-38.88	H
9400.0	-48.11	0.8	11.9	-37.01	H
11280.0	-50.35	0.3	11.5	-39.15	H

Report No.: B16X50266-WWAN-Rev3

5.4.5 WCDMA B2 QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3760.0	-50.16	7.4	12.6	-44.96	V
5640.0	-51.36	1.8	13.1	-40.06	V
7520.0	-51.71	0.9	11.7	-40.91	V
9400.0	-51.73	0.8	11.9	-40.63	V
11280.0	-52.69	0.3	11.5	-41.49	V
3760.0	-50.03	7.4	12.6	-44.83	H
5640.0	-51.55	1.8	13.1	-40.25	H
7520.0	-51.63	0.9	11.7	-40.83	H
9400.0	-52.02	0.8	11.9	-40.92	H
11280.0	-52.25	0.3	11.5	-41.05	H

5.4.6 WCDMA B2 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3760.0	-50.23	7.4	12.6	-45.03	V
5640.0	-51.36	1.8	13.1	-40.06	V
7520.0	-51.28	0.9	11.7	-40.48	V
9400.0	-51.69	0.8	11.9	-40.59	V
11280.0	-50.22	0.3	11.5	-39.02	V
3760.0	-49.85	7.4	12.6	-44.65	H
5640.0	-50.08	1.8	13.1	-38.78	H
7520.0	-50.65	0.9	11.7	-39.85	H
9400.0	-51.26	0.8	11.9	-40.16	H
11280.0	-51.62	0.3	11.5	-40.42	H

5.4.7 WCDMA B5 QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.2	-50.07	4.7	9.4	-45.37	V
2509.8	-50.36	5.9	10.6	-45.66	V
3346.4	-51.03	6.9	12.6	-45.33	V
4183.0	-51.21	7.8	12.6	-46.41	V
5019.6	-50.84	7.1	12.7	-45.24	V
1673.2	-49.63	4.7	9.4	-44.93	H
2509.8	-49.21	5.9	10.6	-44.51	H
3346.4	-50.55	6.9	12.6	-44.85	H
4183.0	-50.81	7.8	12.6	-46.01	H
5019.6	-51.36	7.1	12.7	-45.76	H

5.4.8 WCDMA B5 QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.2	-50.54	4.7	9.4	-45.84	V
2509.8	-50.46	5.9	10.6	-45.76	V
3346.4	-50.32	6.9	12.6	-44.62	V
4183.0	-51.52	7.8	12.6	-46.72	V
5019.6	-51.03	7.1	12.7	-45.43	V
1673.2	-48.36	4.7	9.4	-43.66	H
2509.8	-48.59	5.9	10.6	-43.89	H
3346.4	-49.25	6.9	12.6	-43.55	H
4183.0	-49.79	7.8	12.6	-44.99	H
5019.6	-50.48	7.1	12.7	-44.88	H

5.4.9 LTE B2 1.4M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-50.35	7.3	12.6	-45.05	V
5640.00	-50.12	1.8	13.1	-38.82	V
7520.00	-50.36	0.8	11.7	-39.46	V
9400.00	-51.54	0.8	11.9	-40.44	V
11280.00	-53.45	0.3	11.5	-42.25	V
3760.00	-50.22	7.3	12.6	-44.92	H
5640.00	-50.54	1.8	13.1	-39.24	H
7520.00	-51.23	0.8	11.7	-40.33	H
9400.00	-52.03	0.8	11.9	-40.93	H
11280.00	-52.49	0.3	11.5	-41.29	H

5.4.10 LTE B2 1.4M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-50.45	7.3	12.6	-45.15	V
5640.00	-50.87	1.8	13.1	-39.57	V
7520.00	-50.36	0.8	11.7	-39.46	V
9400.00	-51.45	0.8	11.9	-40.35	V
11280.00	-53.44	0.3	11.5	-42.24	V
3760.00	-50.13	7.3	12.6	-44.83	H
5640.00	-50.14	1.8	13.1	-38.84	H
7520.00	-50.87	0.8	11.7	-39.97	H
9400.00	-51.45	0.8	11.9	-40.35	H
11280.00	-51.88	0.3	11.5	-40.68	H

5.4.11 LTE B2 3M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-49.32	7.3	12.6	-44.02	V
5640.00	-50.02	1.8	13.1	-38.72	V
7520.00	-50.74	0.8	11.7	-39.84	V
9400.00	-51.64	0.8	11.9	-40.54	V
11280.00	-52.15	0.3	11.5	-40.95	V
3760.00	-48.56	7.3	12.6	-43.26	H
5640.00	-49.66	1.8	13.1	-38.36	H
7520.00	-50.32	0.8	11.7	-39.42	H
9400.00	-50.14	0.8	11.9	-39.04	H
11280.00	-52.11	0.3	11.5	-40.91	H

5.4.12 LTE B2 3M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-49.58	7.3	12.6	-44.28	V
5640.00	-50.15	1.8	13.1	-38.85	V
7520.00	-50.77	0.8	11.7	-39.87	V
9400.00	-51.36	0.8	11.9	-40.26	V
11280.00	-51.69	0.3	11.5	-40.49	V
3760.00	-49.01	7.3	12.6	-43.71	H
5640.00	-50.32	1.8	13.1	-39.02	H
7520.00	-50.18	0.8	11.7	-39.28	H
9400.00	-51.45	0.8	11.9	-40.35	H
11280.00	-51.98	0.3	11.5	-40.78	H

5.4.13 LTE B2 5M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-49.12	7.3	12.6	-43.82	V
5640.00	-49.58	1.8	13.1	-38.28	V
7520.00	-50.33	0.8	11.7	-39.43	V
9400.00	-50.48	0.8	11.9	-39.38	V
11280.00	-51.73	0.3	11.5	-40.53	V
3760.00	-49.54	7.3	12.6	-44.24	H
5640.00	-49.84	1.8	13.1	-38.54	H
7520.00	-50.16	0.8	11.7	-39.26	H
9400.00	-50.84	0.8	11.9	-39.74	H
11280.00	-50.64	0.3	11.5	-39.44	H

5.4.14 LTE B2 5M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-50.35	7.3	12.6	-45.05	V
5640.00	-50.48	1.8	13.1	-39.18	V
7520.00	-51.03	0.8	11.7	-40.13	V
9400.00	-51.25	0.8	11.9	-40.15	V
11280.00	-52.33	0.3	11.5	-41.13	V
3760.00	-49.84	7.3	12.6	-44.54	H
5640.00	-49.06	1.8	13.1	-37.76	H
7520.00	-50.77	0.8	11.7	-39.87	H
9400.00	-50.76	0.8	11.9	-39.66	H
11280.00	-51.44	0.3	11.5	-40.24	H

5.4.15 LTE B2 10M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-49.13	7.3	12.6	-43.83	V
5640.00	-49.86	1.8	13.1	-38.56	V
7520.00	-50.32	0.8	11.7	-39.42	V
9400.00	-50.54	0.8	11.9	-39.44	V
11280.00	-51.87	0.3	11.5	-40.67	V
3760.00	-49.06	7.3	12.6	-43.76	H
5640.00	-49.58	1.8	13.1	-38.28	H
7520.00	-51.84	0.8	11.7	-40.94	H
9400.00	-50.36	0.8	11.9	-39.26	H
11280.00	-52.01	0.3	11.5	-40.81	H

5.4.16 LTE B2 10M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-50.32	7.3	12.6	-45.02	V
5640.00	-50.22	1.8	13.1	-38.92	V
7520.00	-50.94	0.8	11.7	-40.04	V
9400.00	-51.15	0.8	11.9	-40.05	V
11280.00	-51.87	0.3	11.5	-40.67	V
3760.00	-50.01	7.3	12.6	-44.71	H
5640.00	-50.15	1.8	13.1	-38.85	H
7520.00	-50.54	0.8	11.7	-39.64	H
9400.00	-51.65	0.8	11.9	-40.55	H
11280.00	-51.93	0.3	11.5	-40.73	H

5.4.17 LTE B2 15M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-50.14	7.3	12.6	-44.84	V
5640.00	-50.63	1.8	13.1	-39.33	V
7520.00	-51.26	0.8	11.7	-40.36	V
9400.00	-52.45	0.8	11.9	-41.35	V
11280.00	-52.98	0.3	11.5	-41.78	V
3760.00	-49.37	7.3	12.6	-44.07	H
5640.00	-50.20	1.8	13.1	-38.90	H
7520.00	-50.87	0.8	11.7	-39.97	H
9400.00	-52.36	0.8	11.9	-41.26	H
11280.00	-51.46	0.3	11.5	-40.26	H

5.4.18 LTE B2 15M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-49.32	7.3	12.6	-44.02	V
5640.00	-49.84	1.8	13.1	-38.54	V
7520.00	-50.21	0.8	11.7	-39.31	V
9400.00	-50.83	0.8	11.9	-39.73	V
11280.00	-51.56	0.3	11.5	-40.36	V
3760.00	-48.51	7.3	12.6	-43.21	H
5640.00	-49.53	1.8	13.1	-38.23	H
7520.00	-50.14	0.8	11.7	-39.24	H
9400.00	-50.57	0.8	11.9	-39.47	H
11280.00	-51.35	0.3	11.5	-40.15	H

5.4.19 LTE B2 20M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-49.35	7.3	12.6	-44.05	V
5640.00	-49.82	1.8	13.1	-38.52	V
7520.00	-50.06	0.8	11.7	-39.16	V
9400.00	-50.67	0.8	11.9	-39.57	V
11280.00	-51.33	0.3	11.5	-40.13	V
3760.00	-49.82	7.3	12.6	-44.52	H
5640.00	-48.36	1.8	13.1	-37.06	H
7520.00	-50.48	0.8	11.7	-39.58	H
9400.00	-50.36	0.8	11.9	-39.26	H
11280.00	-51.32	0.3	11.5	-40.12	H

5.4.20 LTE B2 20M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.00	-48.36	7.3	12.6	-43.06	V
5640.00	-49.22	1.8	13.1	-37.92	V
7520.00	-50.14	0.8	11.7	-39.24	V
9400.00	-50.63	0.8	11.9	-39.53	V
11280.00	-51.48	0.3	11.5	-40.28	V
3760.00	-50.14	7.3	12.6	-44.84	H
5640.00	-50.36	1.8	13.1	-39.06	H
7520.00	-50.87	0.8	11.7	-39.97	H
9400.00	-51.36	0.8	11.9	-40.26	H
11280.00	-52.01	0.3	11.5	-40.81	H

5.4.21 LTE B4 1.4M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.23	6.9	12.6	-42.53	V
5197.50	-48.36	5.8	12.7	-41.46	V
6930.00	-49.25	0.9	11.7	-38.45	V
8662.50	-50.14	0.9	11.9	-39.14	V
10395.00	-51.36	0.7	12.1	-39.96	V
3465.00	-48.54	6.9	12.6	-42.84	H
5197.50	-48.00	5.8	12.7	-41.10	H
6930.00	-49.59	0.9	11.7	-38.79	H
8662.50	-49.99	0.9	11.9	-38.99	H
10395.00	-51.43	0.7	12.1	-40.03	H

5.4.22 LTE B4 1.4M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-49.35	6.9	12.6	-43.65	V
5197.50	-49.87	5.8	12.7	-42.97	V
6930.00	-50.04	0.9	11.7	-39.24	V
8662.50	-50.68	0.9	11.9	-39.68	V
10395.00	-51.22	0.7	12.1	-39.82	V
3465.00	-48.39	6.9	12.6	-42.69	H
5197.50	-48.79	5.8	12.7	-41.89	H
6930.00	-49.55	0.9	11.7	-38.75	H
8662.50	-49.96	0.9	11.9	-38.96	H
10395.00	-50.16	0.7	12.1	-38.76	H

5.4.23 LTE B4 3M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.26	6.9	12.6	-42.56	V
5197.50	-48.43	5.8	12.7	-41.53	V
6930.00	-50.77	0.9	11.7	-39.97	V
8662.50	-50.99	0.9	11.9	-39.99	V
10395.00	-51.51	0.7	12.1	-40.11	V
3465.00	-48.44	6.9	12.6	-42.74	H
5197.50	-49.18	5.8	12.7	-42.28	H
6930.00	-49.95	0.9	11.7	-39.15	H
8662.50	-50.40	0.9	11.9	-39.40	H
10395.00	-51.71	0.7	12.1	-40.31	H

5.4.24 LTE B4 3M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.26	6.9	12.6	-42.56	V
5197.50	-49.81	5.8	12.7	-42.91	V
6930.00	-49.84	0.9	11.7	-39.04	V
8662.50	-50.43	0.9	11.9	-39.43	V
10395.00	-41.98	0.7	12.1	-30.58	V
3465.00	-48.29	6.9	12.6	-42.59	H
5197.50	-50.04	5.8	12.7	-43.14	H
6930.00	-49.78	0.9	11.7	-38.98	H
8662.50	-50.81	0.9	11.9	-39.81	H
10395.00	-51.54	0.7	12.1	-40.14	H

5.4.25 LTE B4 5M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.91	6.9	12.6	-43.21	V
5197.50	-50.55	5.8	12.7	-43.65	V
6930.00	-51.15	0.9	11.7	-40.35	V
8662.50	-51.29	0.9	11.9	-40.29	V
10395.00	-51.92	0.7	12.1	-40.52	V
3465.00	-49.03	6.9	12.6	-43.33	H
5197.50	-49.11	5.8	12.7	-42.21	H
6930.00	-50.14	0.9	11.7	-39.34	H
8662.50	-50.69	0.9	11.9	-39.69	H
10395.00	-50.95	0.7	12.1	-39.55	H

5.4.26 LTE B4 5M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.22	6.9	12.6	-42.52	V
5197.50	-49.27	5.8	12.7	-42.37	V
6930.00	-50.00	0.9	11.7	-39.20	V
8662.50	-50.33	0.9	11.9	-39.33	V
10395.00	-51.13	0.7	12.1	-39.73	V
3465.00	-48.13	6.9	12.6	-42.43	H
5197.50	-49.21	5.8	12.7	-42.31	H
6930.00	-49.57	0.9	11.7	-38.77	H
8662.50	-50.25	0.9	11.9	-39.25	H
10395.00	-51.11	0.7	12.1	-39.71	H

5.4.27 LTE B4 10M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.08	6.9	12.6	-42.38	V
5197.50	-48.72	5.8	12.7	-41.82	V
6930.00	-49.19	0.9	11.7	-38.39	V
8662.50	-50.87	0.9	11.9	-39.87	V
10395.00	-51.21	0.7	12.1	-39.81	V
3465.00	-48.10	6.9	12.6	-42.40	H
5197.50	-49.67	5.8	12.7	-42.77	H
6930.00	-49.83	0.9	11.7	-39.03	H
8662.50	-50.16	0.9	11.9	-39.16	H
10395.00	-51.52	0.7	12.1	-40.12	H

5.4.28 LTE B4 10M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.34	6.9	12.6	-42.64	V
5197.50	-48.85	5.8	12.7	-41.95	V
6930.00	-49.55	0.9	11.7	-38.75	V
8662.50	-50.05	0.9	11.9	-39.05	V
10395.00	-51.58	0.7	12.1	-40.18	V
3465.00	-48.37	6.9	12.6	-42.67	H
5197.50	-48.70	5.8	12.7	-41.80	H
6930.00	-50.24	0.9	11.7	-39.44	H
8662.50	-50.81	0.9	11.9	-39.81	H
10395.00	-51.26	0.7	12.1	-39.86	H

5.4.29 LTE B4 15M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.66	6.9	12.6	-42.96	V
5197.50	-49.02	5.8	12.7	-42.12	V
6930.00	-50.05	0.9	11.7	-39.25	V
8662.50	-50.73	0.9	11.9	-39.73	V
10395.00	-51.46	0.7	12.1	-40.06	V
3465.00	-48.33	6.9	12.6	-42.63	H
5197.50	-48.78	5.8	12.7	-41.88	H
6930.00	-48.91	0.9	11.7	-38.11	H
8662.50	-50.55	0.9	11.9	-39.55	H
10395.00	-51.14	0.7	12.1	-39.74	H

5.4.30 LTE B4 15M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.61	6.9	12.6	-42.91	V
5197.50	-49.33	5.8	12.7	-42.43	V
6930.00	-50.14	0.9	11.7	-39.34	V
8662.50	-50.60	0.9	11.9	-39.60	V
10395.00	-51.27	0.7	12.1	-39.87	V
3465.00	-48.17	6.9	12.6	-42.47	H
5197.50	-48.98	5.8	12.7	-42.08	H
6930.00	-50.29	0.9	11.7	-39.49	H
8662.50	-50.63	0.9	11.9	-39.63	H
10395.00	-51.35	0.7	12.1	-39.95	H

5.4.31 LTE B4 20M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.72	6.9	12.6	-43.02	V
5197.50	-49.10	5.8	12.7	-42.20	V
6930.00	-50.56	0.9	11.7	-39.76	V
8662.50	-51.05	0.9	11.9	-40.05	V
10395.00	-51.26	0.7	12.1	-39.86	V
3465.00	-48.27	6.9	12.6	-42.57	H
5197.50	-48.81	5.8	12.7	-41.91	H
6930.00	-49.31	0.9	11.7	-38.51	H
8662.50	-50.31	0.9	11.9	-39.31	H
10395.00	-50.88	0.7	12.1	-39.48	H

5.4.32 LTE B4 20M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.00	-48.71	6.9	12.6	-43.01	V
5197.50	-49.31	5.8	12.7	-42.41	V
6930.00	-49.66	0.9	11.7	-38.86	V
8662.50	-50.35	0.9	11.9	-39.35	V
10395.00	-51.43	0.7	12.1	-40.03	V
3465.00	-48.34	6.9	12.6	-42.64	H
5197.50	-48.97	5.8	12.7	-42.07	H
6930.00	-47.71	0.9	11.7	-36.91	H
8662.50	-50.67	0.9	11.9	-39.67	H
10395.00	-51.48	0.7	12.1	-40.08	H

5.4.33 LTE B7 1.4M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.86	7.5	12.7	-47.66	V
7605.00	-54.23	1.1	11.3	-44.03	V
10140.00	-54.69	0.4	12.1	-42.99	V
12675.00	-53.22	0.5	13.2	-40.52	V
15210.00	-54.05	0.4	13.6	-40.85	V
5070.00	-53.89	7.5	12.7	-48.69	H
7605.00	-53.92	1.1	11.3	-43.72	H
10140.00	-53.20	0.4	12.1	-41.50	H
12675.00	-54.56	0.5	13.2	-41.86	H
15210.00	-54.62	0.4	13.6	-41.42	H

5.4.34 LTE B7 1.4M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.44	7.5	12.7	-47.24	V
7605.00	-53.56	1.1	11.3	-43.36	V
10140.00	-53.70	0.4	12.1	-42.00	V
12675.00	-54.00	0.5	13.2	-41.30	V
15210.00	-53.95	0.4	13.6	-40.75	V
5070.00	-52.12	7.5	12.7	-46.92	H
7605.00	-54.41	1.1	11.3	-44.21	H
10140.00	-53.71	0.4	12.1	-42.01	H
12675.00	-55.47	0.5	13.2	-42.77	H
15210.00	-53.42	0.4	13.6	-40.22	H

5.4.35 LTE B7 3M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.34	7.5	12.7	-47.14	V
7605.00	-53.42	1.1	11.3	-43.22	V
10140.00	-53.66	0.4	12.1	-41.96	V
12675.00	-54.84	0.5	13.2	-42.14	V
15210.00	-54.53	0.4	13.6	-41.33	V
5070.00	-52.15	7.5	12.7	-46.95	H
7605.00	-52.83	1.1	11.3	-42.63	H
10140.00	-53.21	0.4	12.1	-41.51	H
12675.00	-53.69	0.5	13.2	-40.99	H
15210.00	-54.46	0.4	13.6	-41.26	H

5.4.36 LTE B7 3M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.22	7.5	12.7	-47.02	V
7605.00	-53.01	1.1	11.3	-42.81	V
10140.00	-53.90	0.4	12.1	-42.20	V
12675.00	-54.29	0.5	13.2	-41.59	V
15210.00	-54.57	0.4	13.6	-41.37	V
5070.00	-52.89	7.5	12.7	-47.69	H
7605.00	-53.58	1.1	11.3	-43.38	H
10140.00	-53.57	0.4	12.1	-41.87	H
12675.00	-54.55	0.5	13.2	-41.85	H
15210.00	-55.71	0.4	13.6	-42.51	H

5.4.37 LTE B7 5M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.84	7.5	12.7	-47.64	V
7605.00	-53.25	1.1	11.3	-43.05	V
10140.00	-54.05	0.4	12.1	-42.35	V
12675.00	-54.23	0.5	13.2	-41.53	V
15210.00	-54.42	0.4	13.6	-41.22	V
5070.00	-52.40	7.5	12.7	-47.20	H
7605.00	-53.23	1.1	11.3	-43.03	H
10140.00	-53.62	0.4	12.1	-41.92	H
12675.00	-54.14	0.5	13.2	-41.44	H
15210.00	-54.93	0.4	13.6	-41.73	H

5.4.38 LTE B7 5M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.82	7.5	12.7	-47.62	V
7605.00	-53.75	1.1	11.3	-43.55	V
10140.00	-54.04	0.4	12.1	-42.34	V
12675.00	-54.12	0.5	13.2	-41.42	V
15210.00	-55.06	0.4	13.6	-41.86	V
5070.00	-53.71	7.5	12.7	-48.51	H
7605.00	-52.04	1.1	11.3	-41.84	H
10140.00	-52.84	0.4	12.1	-41.14	H
12675.00	-53.15	0.5	13.2	-40.45	H
15210.00	-55.07	0.4	13.6	-41.87	H

5.4.39 LTE B7 10M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.15	7.5	12.7	-46.95	V
7605.00	-52.73	1.1	11.3	-42.53	V
10140.00	-53.29	0.4	12.1	-41.59	V
12675.00	-54.14	0.5	13.2	-41.44	V
15210.00	-54.91	0.4	13.6	-41.71	V
5070.00	-53.74	7.5	12.7	-48.54	H
7605.00	-54.78	1.1	11.3	-44.58	H
10140.00	-54.75	0.4	12.1	-43.05	H
12675.00	-55.40	0.5	13.2	-42.70	H
15210.00	-55.37	0.4	13.6	-42.17	H

5.4.40 LTE B7 10M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.53	7.5	12.7	-47.33	V
7605.00	-53.47	1.1	11.3	-43.27	V
10140.00	-53.69	0.4	12.1	-41.99	V
12675.00	-54.02	0.5	13.2	-41.32	V
15210.00	-54.98	0.4	13.6	-41.78	V
5070.00	-52.72	7.5	12.7	-47.52	H
7605.00	-53.39	1.1	11.3	-43.19	H
10140.00	-54.19	0.4	12.1	-42.49	H
12675.00	-54.26	0.5	13.2	-41.56	H
15210.00	-54.71	0.4	13.6	-41.51	H

5.4.41 LTE B7 15M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.95	7.5	12.7	-47.75	V
7605.00	-54.14	1.1	11.3	-43.94	V
10140.00	-53.44	0.4	12.1	-41.74	V
12675.00	-54.04	0.5	13.2	-41.34	V
15210.00	-54.98	0.4	13.6	-41.78	V
5070.00	-52.9	7.5	12.7	-47.70	H
7605.00	-53.25	1.1	11.3	-43.05	H
10140.00	-53.60	0.4	12.1	-41.90	H
12675.00	-54.71	0.5	13.2	-42.01	H
15210.00	-55.10	0.4	13.6	-41.90	H

5.4.42 LTE B7 15M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.73	7.5	12.7	-47.53	V
7605.00	-53.09	1.1	11.3	-42.89	V
10140.00	-53.42	0.4	12.1	-41.72	V
12675.00	-54.42	0.5	13.2	-41.72	V
15210.00	-55.59	0.4	13.6	-42.39	V
5070.00	-52.10	7.5	12.7	-46.90	H
7605.00	-52.96	1.1	11.3	-42.76	H
10140.00	-53.56	0.4	12.1	-41.86	H
12675.00	-54.70	0.5	13.2	-42.00	H
15210.00	-55.15	0.4	13.6	-41.95	H

5.4.43 LTE B7 20M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.06	7.5	12.7	-46.86	V
7605.00	-52.75	1.1	11.3	-42.55	V
10140.00	-53.33	0.4	12.1	-41.63	V
12675.00	-54.24	0.5	13.2	-41.54	V
15210.00	-54.72	0.4	13.6	-41.52	V
5070.00	-52.23	7.5	12.7	-47.03	H
7605.00	-52.54	1.1	11.3	-42.34	H
10140.00	-53.86	0.4	12.1	-42.16	H
12675.00	-54.29	0.5	13.2	-41.59	H
15210.00	-54.44	0.4	13.6	-41.24	H

5.4.44 LTE B7 20M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
5070.00	-52.19	7.5	12.7	-46.99	V
7605.00	-53.35	1.1	11.3	-43.15	V
10140.00	-53.60	0.4	12.1	-41.90	V
12675.00	-53.76	0.5	13.2	-41.06	V
15210.00	-54.02	0.4	13.6	-40.82	V
5070.00	-52.61	7.5	12.7	-47.41	H
7605.00	-54.20	1.1	11.3	-44.00	H
10140.00	-54.86	0.4	12.1	-43.16	H
12675.00	-55.25	0.5	13.2	-42.55	H
15210.00	-55.98	0.4	13.6	-42.78	H

5.4.45 LTE B17 1.4M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.19	4.4	8.0	-41.59	V
2130.00	-45.78	5.4	10.4	-40.78	V
2840.00	-48.85	6.3	11.5	-43.65	V
3550.00	-46.40	7.0	12.6	-40.80	V
4260.00	-47.12	7.8	12.6	-42.32	V
1420.00	-45.09	4.4	8.0	-41.49	H
2130.00	-45.40	5.4	10.4	-40.40	H
2840.00	-45.54	6.3	11.5	-40.34	H
3550.00	-46.26	7.0	12.6	-40.66	H
4260.00	-46.38	7.8	12.6	-41.58	H

5.4.46 LTE B17 1.4M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.20	4.4	8.0	-41.60	V
2130.00	-45.58	5.4	10.4	-40.58	V
2840.00	-45.82	6.3	11.5	-40.62	V
3550.00	-46.25	7.0	12.6	-40.65	V
4260.00	-47.58	7.8	12.6	-42.78	V
1420.00	-46.38	4.4	8.0	-42.78	H
2130.00	-45.51	5.4	10.4	-40.51	H
2840.00	-46.53	6.3	11.5	-41.33	H
3550.00	-46.53	7.0	12.6	-40.93	H
4260.00	-47.43	7.8	12.6	-42.63	H

5.4.47 LTE B17 3M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.09	4.4	8.0	-41.49	V
2130.00	-45.19	5.4	10.4	-40.19	V
2840.00	-45.64	6.3	11.5	-40.44	V
3550.00	-46.02	7.0	12.6	-40.42	V
4260.00	-46.16	7.8	12.6	-41.36	V
1420.00	-46.03	4.4	8.0	-42.43	H
2130.00	-46.22	5.4	10.4	-41.22	H
2840.00	-46.80	6.3	11.5	-41.60	H
3550.00	-47.21	7.0	12.6	-41.61	H
4260.00	-47.75	7.8	12.6	-42.95	H

5.4.48 LTE B17 3M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.08	4.4	8.0	-41.48	V
2130.00	-45.60	5.4	10.4	-40.60	V
2840.00	-45.78	6.3	11.5	-40.58	V
3550.00	-46.90	7.0	12.6	-41.30	V
4260.00	-47.15	7.8	12.6	-42.35	V
1420.00	-45.91	4.4	8.0	-42.31	H
2130.00	-46.82	5.4	10.4	-41.82	H
2840.00	-47.56	6.3	11.5	-42.36	H
3550.00	-47.62	7.0	12.6	-42.02	H
4260.00	-48.49	7.8	12.6	-43.69	H

5.4.49 LTE B17 5M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.20	4.4	8.0	-41.60	V
2130.00	-45.75	5.4	10.4	-40.75	V
2840.00	-45.89	6.3	11.5	-40.69	V
3550.00	-46.44	7.0	12.6	-40.84	V
4260.00	-46.68	7.8	12.6	-41.88	V
1420.00	-45.27	4.4	8.0	-41.67	H
2130.00	-45.6	5.4	10.4	-40.60	H
2840.00	-46.41	6.3	11.5	-41.21	H
3550.00	-46.42	7.0	12.6	-40.82	H
4260.00	-47.22	7.8	12.6	-42.42	H

5.4.50 LTE B17 5M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.00	4.4	8.0	-41.40	V
2130.00	-45.53	5.4	10.4	-40.53	V
2840.00	-45.74	6.3	11.5	-40.54	V
3550.00	-46.26	7.0	12.6	-40.66	V
4260.00	-46.62	7.8	12.6	-41.82	V
1420.00	-45.94	4.4	8.0	-42.34	H
2130.00	-46.05	5.4	10.4	-41.05	H
2840.00	-46.27	6.3	11.5	-41.07	H
3550.00	-46.46	7.0	12.6	-40.86	H
4260.00	-47.52	7.8	12.6	-42.72	H

5.4.50 LTE B17 10M Bandwidth QPSK Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.27	4.4	8.0	-41.67	V
2130.00	-45.33	5.4	10.4	-40.33	V
2840.00	-45.78	6.3	11.5	-40.58	V
3550.00	-46.07	7.0	12.6	-40.47	V
4260.00	-46.48	7.8	12.6	-41.68	V
1420.00	-45.18	4.4	8.0	-41.58	H
2130.00	-45.36	5.4	10.4	-40.36	H
2840.00	-46.66	6.3	11.5	-41.46	H
3550.00	-47.38	7.0	12.6	-41.78	H
4260.00	-47.44	7.8	12.6	-42.64	H

5.4.51 LTE B17 10M Bandwidth 16QAM Radiated Spurious Emission Results

Test Data

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1420.00	-45.31	4.4	8.0	-41.71	V
2130.00	-45.84	5.4	10.4	-40.84	V
2840.00	-45.91	6.3	11.5	-40.71	V
3550.00	-46.14	7.0	12.6	-40.54	V
4260.00	-46.32	7.8	12.6	-41.52	V
1420.00	-45.96	4.4	8.0	-42.36	H
2130.00	-46.33	5.4	10.4	-41.33	H
2840.00	-46.50	6.3	11.5	-41.30	H
3550.00	-46.83	7.0	12.6	-41.23	H
4260.00	-48.42	7.8	12.6	-43.62	H

5.5 Band Edge

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	S3/9: 358067070000937
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit Level Construction:

According to Part 22.917 and 24.238:

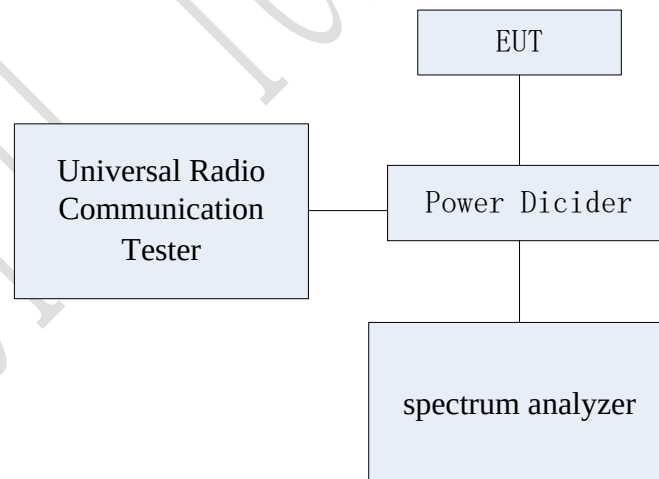
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB

5.5.1 GSM850 Band Edge Results



Ref 29 dBm Att 0 dB RBW 3 kHz VBW 10 kHz SWT 250 ms Marker 1 [T1] -14.16 dBm 849.003205128 MHz

Offset 34.5 dB

1 dB MAXII

A

1V

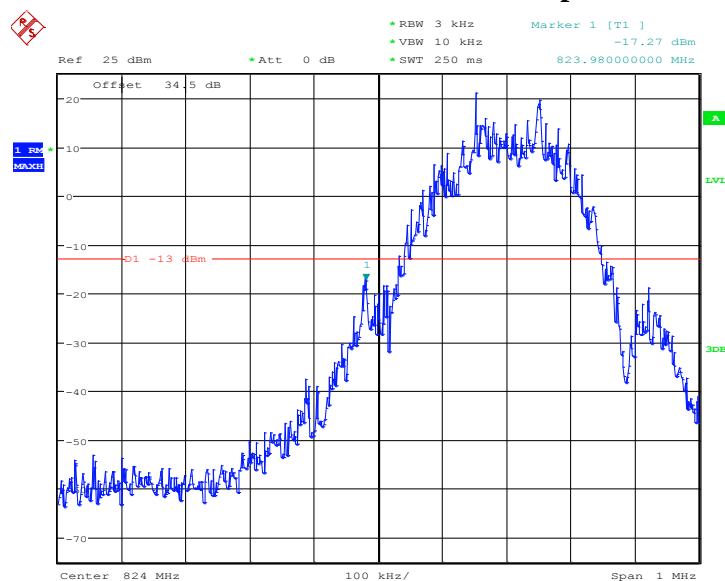
30dB

Center 849 MHz Span 1 MHz

Date: 6.JUL.2016 15:39:36

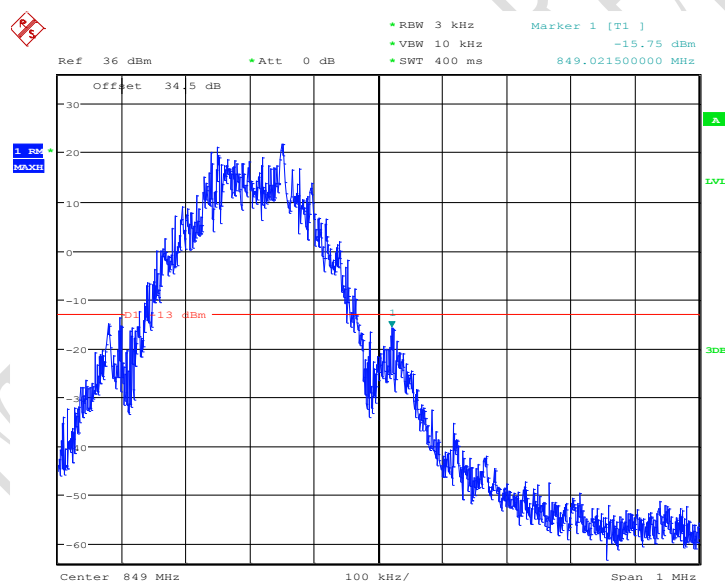
Address: 11 YUE TAN NAN JIE, BEIJING, P.R.C,100045 Tel:+86 10 68094053 FAX:+86 10 68011404 Web:<http://www.chinattl.com>

Report No.: B16X50266-WWAN-Rev3



Date: 6.JUL.2016 16:27:28

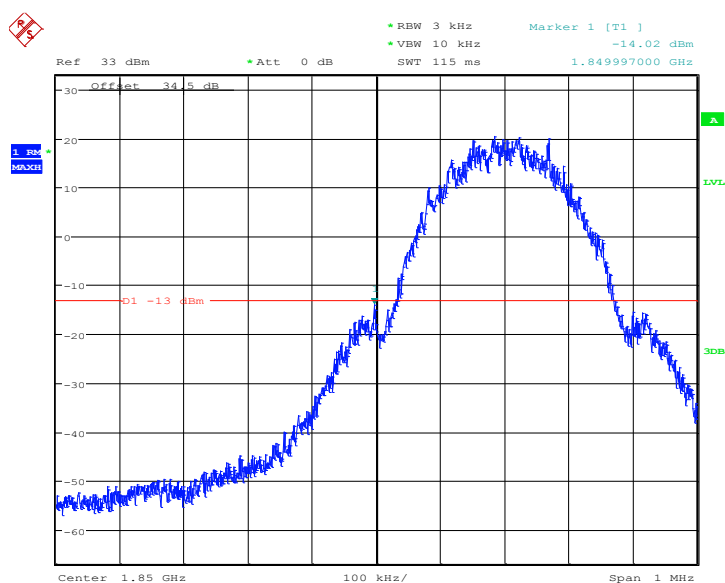
8PSK; Cellular low channel, below 824 MHz



Date: 6.JUL.2016 16:22:46

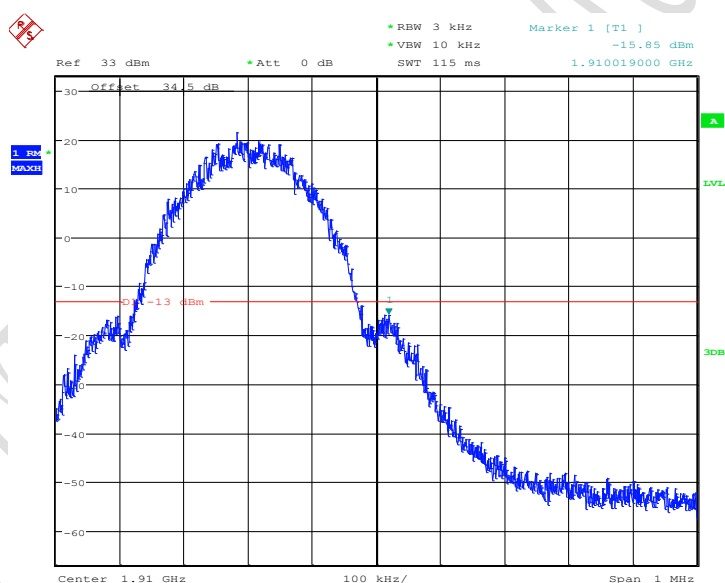
8PSK; Cellular high channel, above 849 MHz

5.5.2 PCS1900 Band Edge Results



Date: 6.JUL.2016 15:52:35

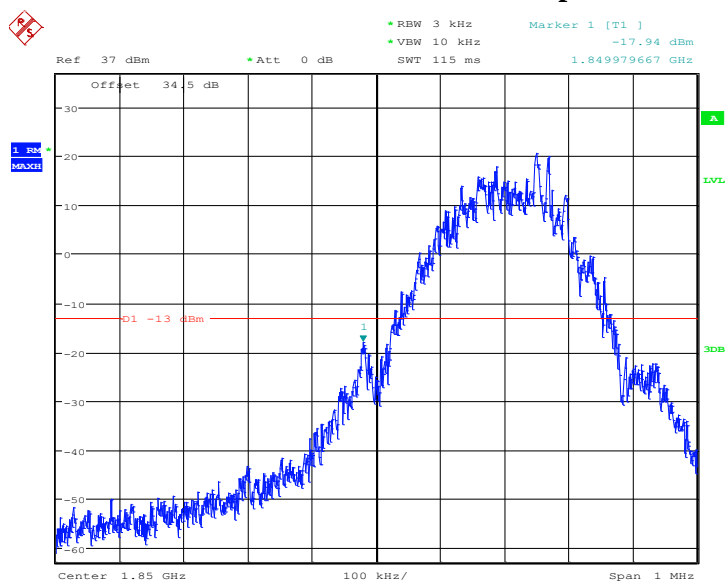
GMSK; PCS low channel, below 1850 MHz



Date: 6.JUL.2016 15:51:50

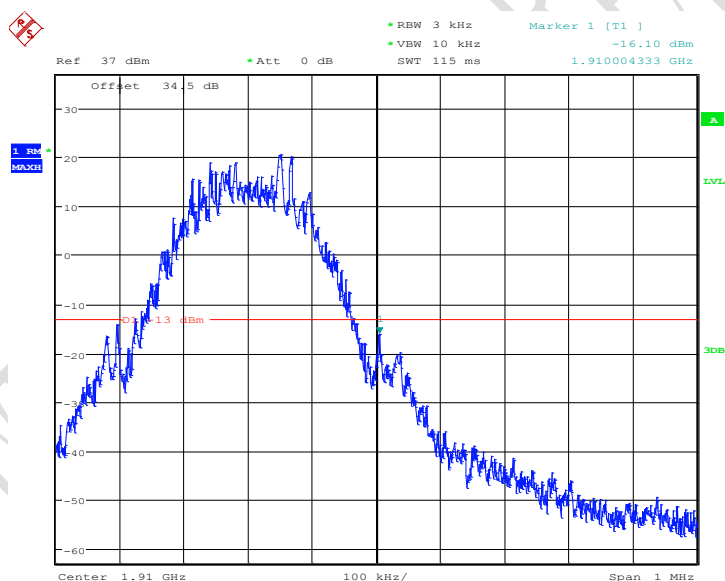
GMSK; PCS high channel, above 1910 MHz

Report No.: B16X50266-WWAN-Rev3



Date: 6.JUL.2016 16:43:26

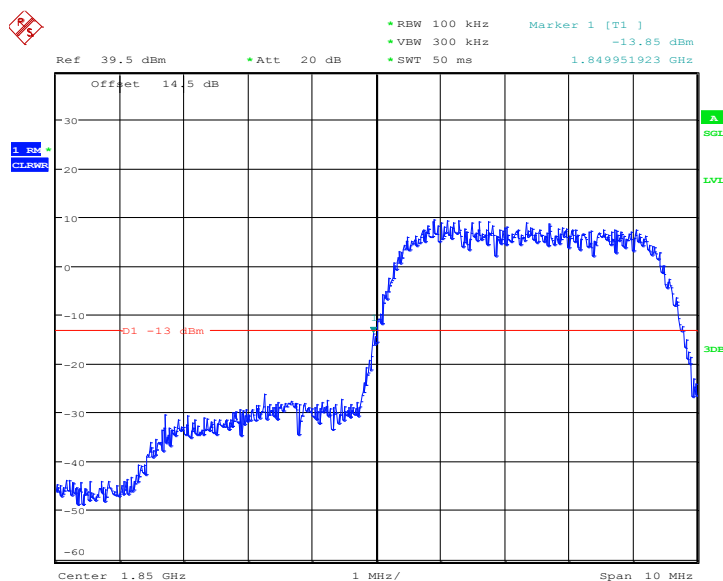
8PSK; PCS low channel, below 1850 MHz



Date: 6.JUL.2016 16:43:00

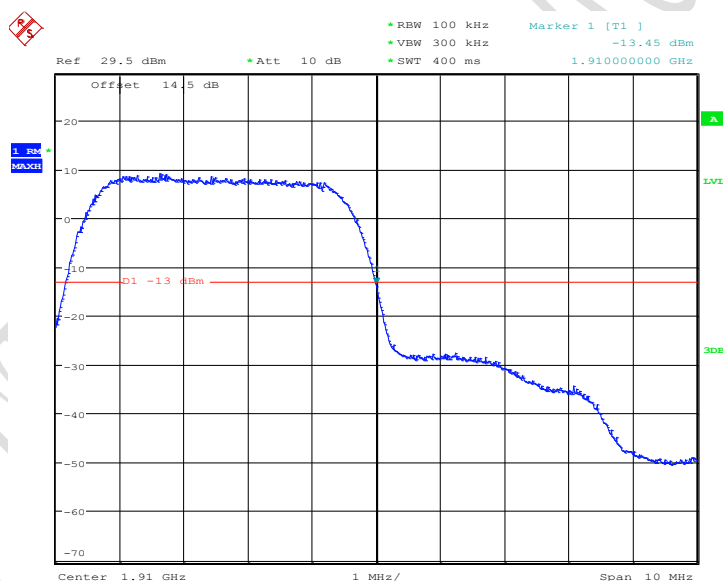
8PSK; PCS high channel, above 1910 MHz

5.5.3 WCDMA B2 Band Edge Results



Date: 7.JUL.2016 11:41:15

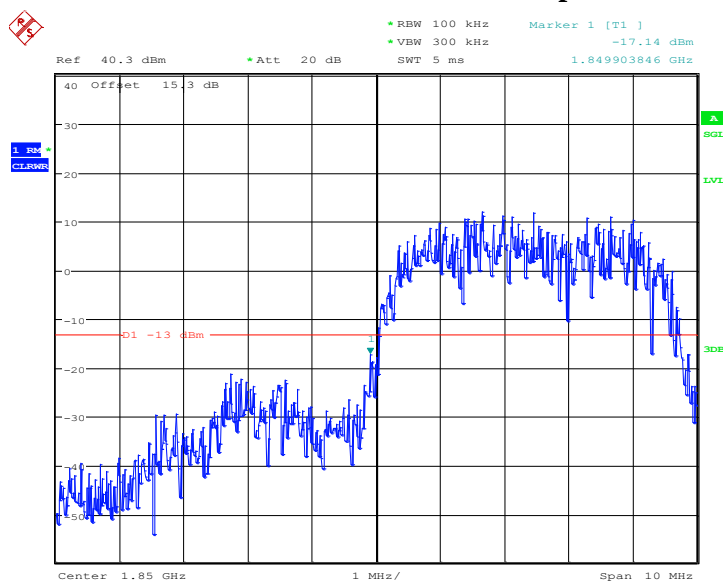
WCDMA Band 2 QPSK, Low Channel , Below 1850MHz



Date: 7.JUL.2016 11:44:12

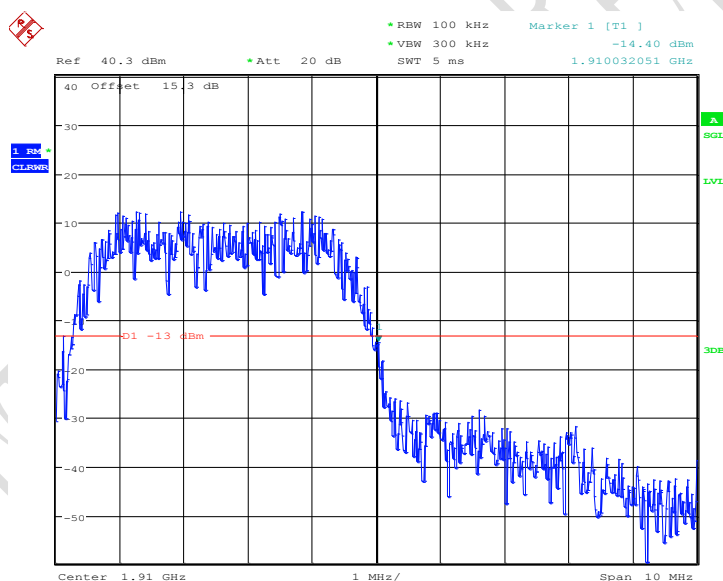
WCDMA Band 2 QPSK, High Channel , Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 14.JUL.2016 11:16:04

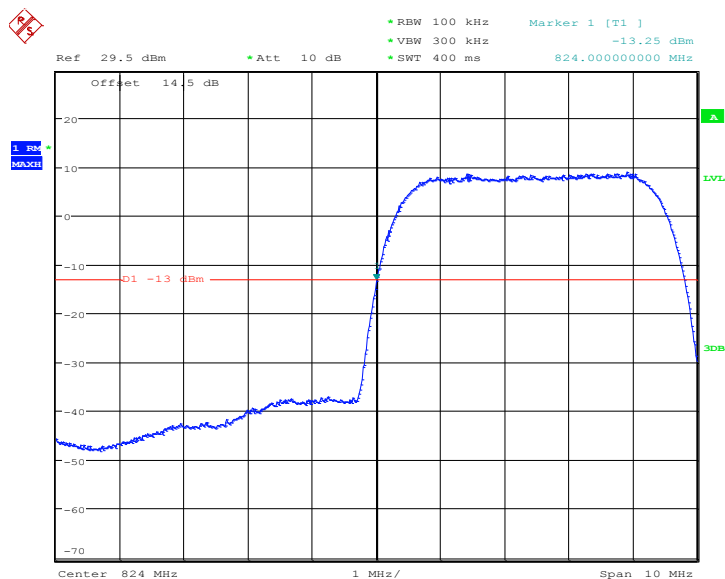
WCDMA Band 2 16QAM, Low Channel , Below 1850MHz



Date: 14.JUL.2016 11:18:01

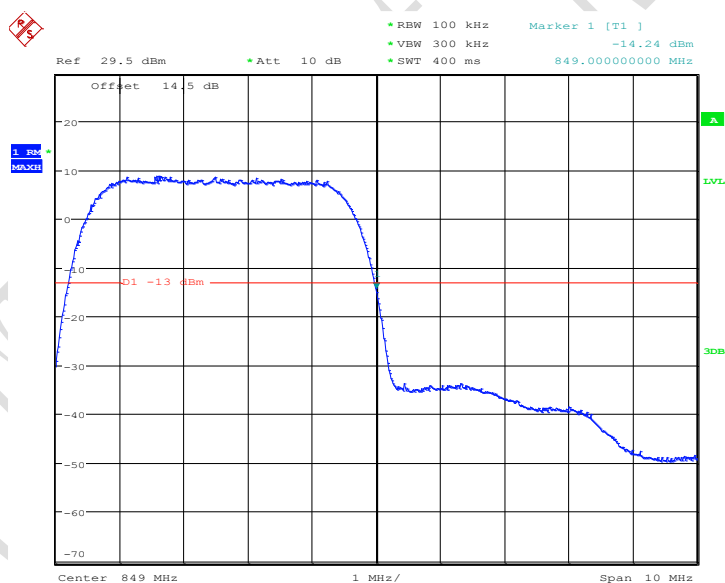
WCDMA Band 2 16QAM, High Channel , Above 1910MHz

5.5.4 WCDMA B5 Band Edge Results



Date: 7.JUL.2016 11:45:34

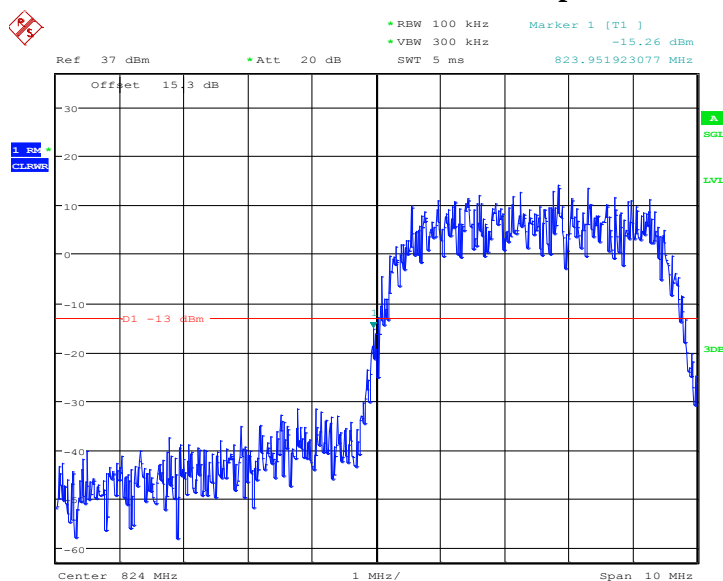
WCDMA Band 5 QPSK, Low Channel , Below 824MHz



Date: 7.JUL.2016 11:46:42

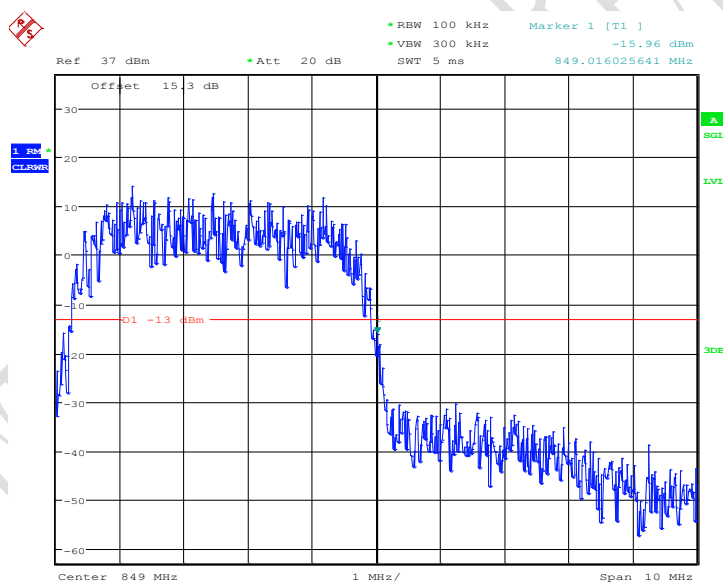
WCDMA Band 5 QPSK, High Channel , Above 849MHz

Report No.: B16X50266-WWAN-Rev3



Date: 14.JUL.2016 11:20:00

WCDMA Band 5 16QAM, Low Channel , Below 824MHz



Date: 14.JUL.2016 11:20:41

WCDMA Band 5 16QAM, High Channel , Above 849MHz



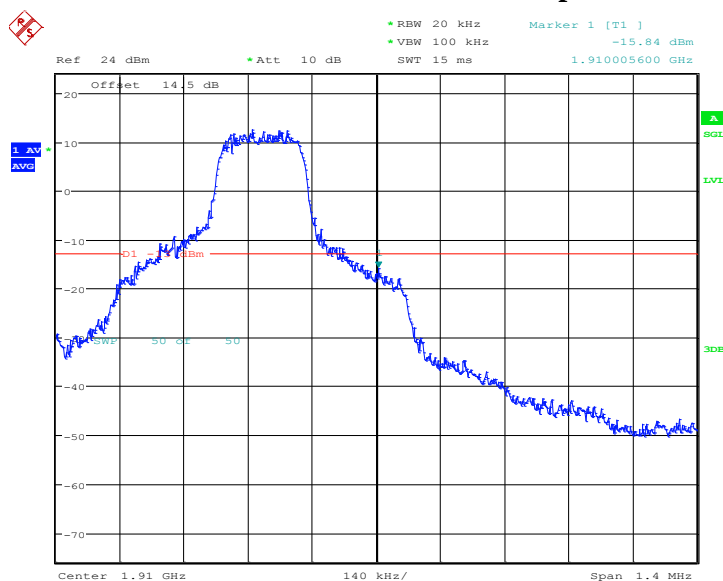
Ref 24 dBm • Att 10 dB • RBW 20 kHz Marker 1 [T1] -24.86 dBm
 • VBW 100 kHz SWT 15 ms 1.849969200 GHz

Offset 14.5 dB
 1 AV
 AVG
 01 -13 dBm
 1
 Center 1.85 GHz 140 kHz/ Span 1.4 MHz

Date: 8.JUL.2016 14:17:24

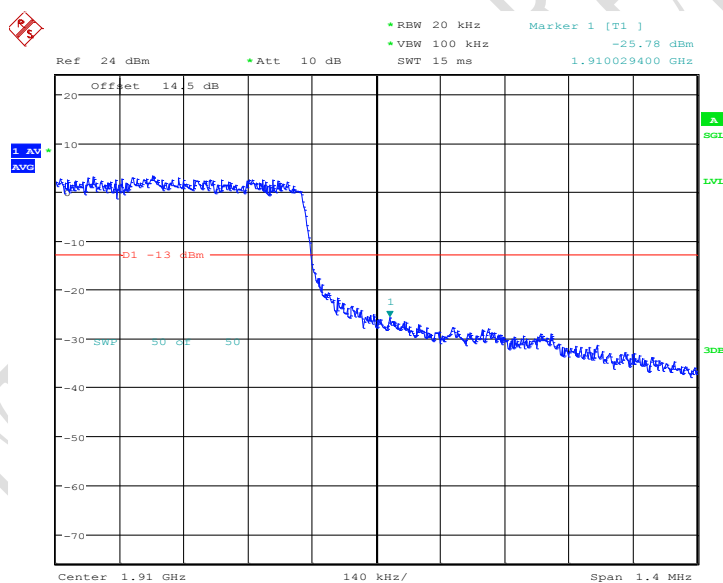
Address: 11 YUE TAN NAN JIE, BEIJING, P.R.C,100045 Tel:+86 10 68094053 FAX:+86 10 68011404 Web:<http://www.chinattl.com>

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:18:10

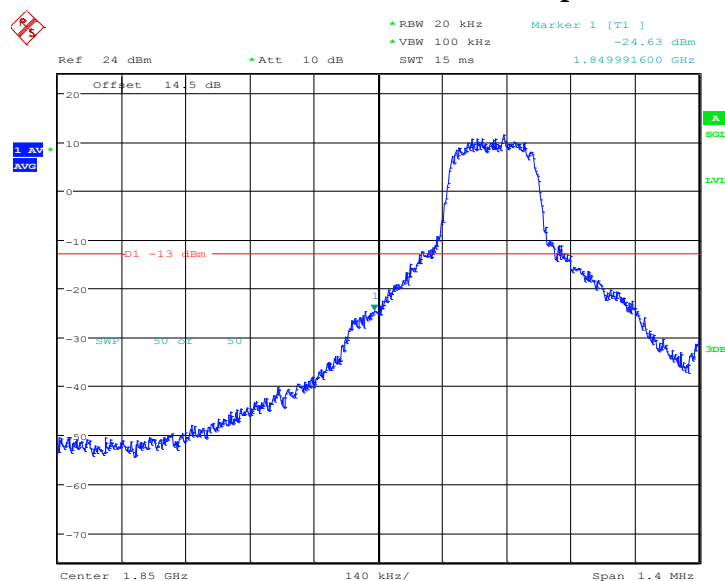
LTE Band2, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1910MHz



Date: 8.JUL.2016 14:19:08

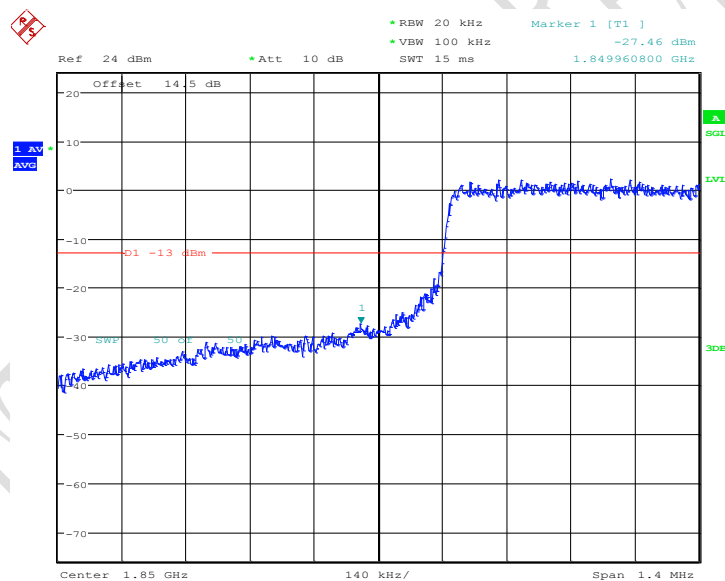
LTE Band2, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:16:44

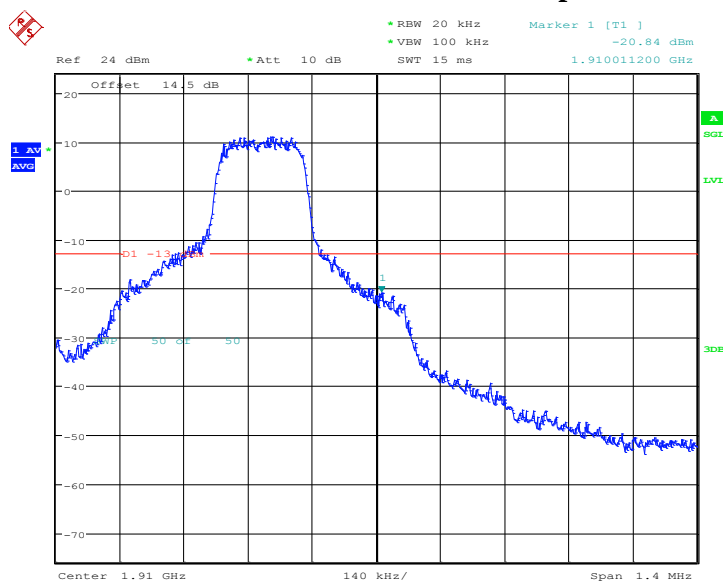
LTE Band2, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:17:06

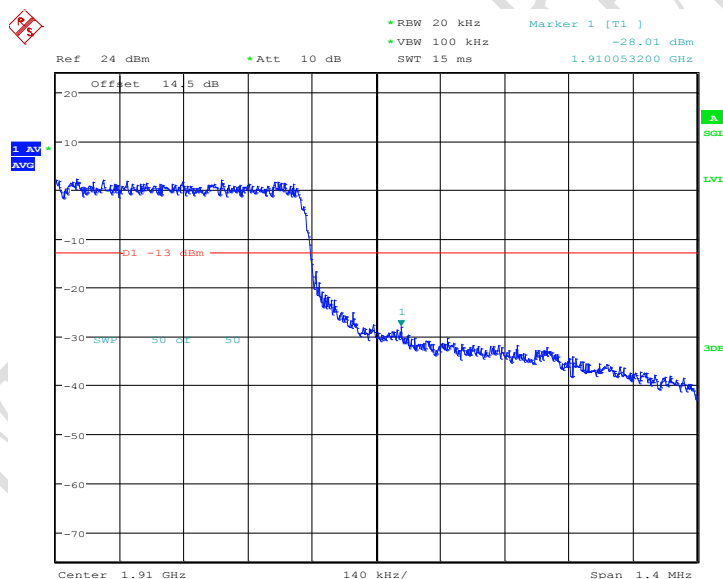
LTE Band2, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:18:29

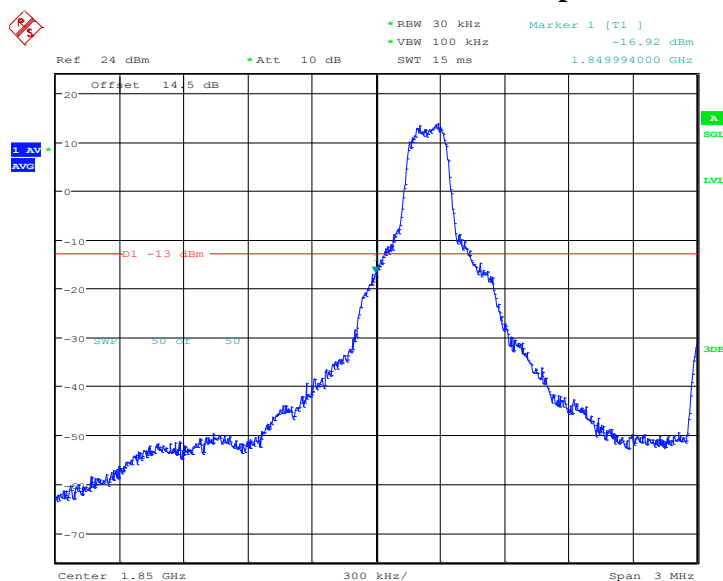
LTE Band2, 1.4MHz bandwidth, 16QAM, (1,6) Mode, Above 1910MHz



Date: 8.JUL.2016 14:18:50

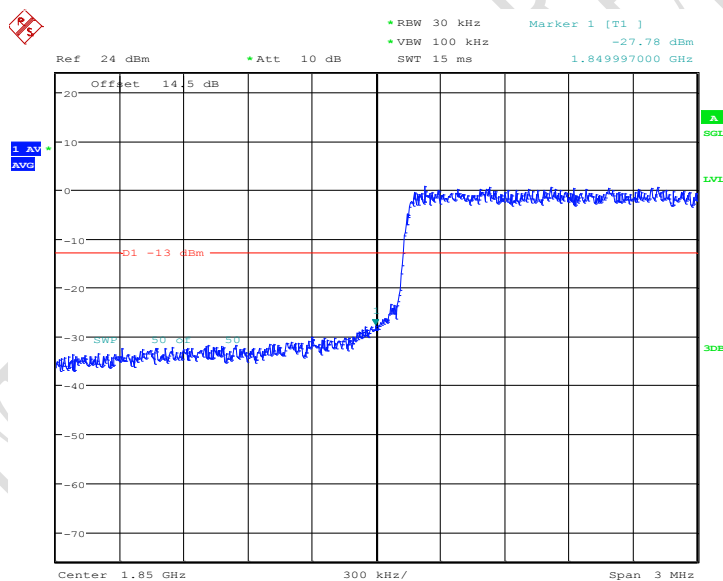
LTE Band2, 1.4MHz bandwidth, 16QAM, (6,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:20:04

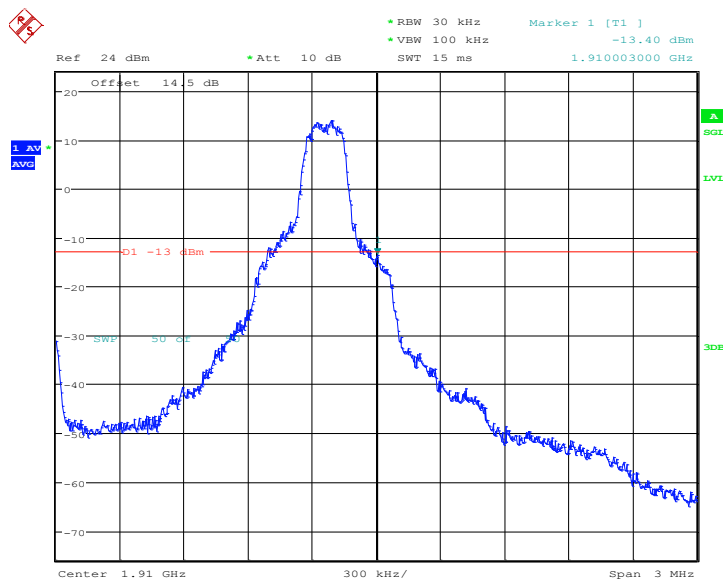
LTE Band2, 3MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:20:59

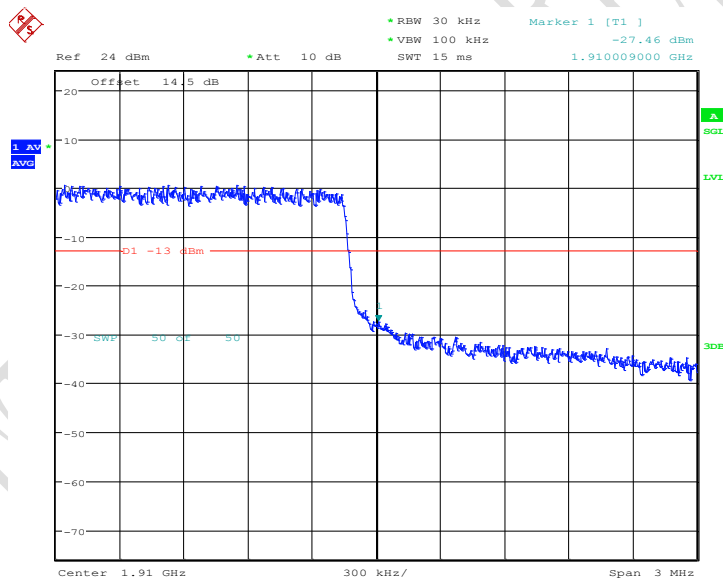
LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:21:41

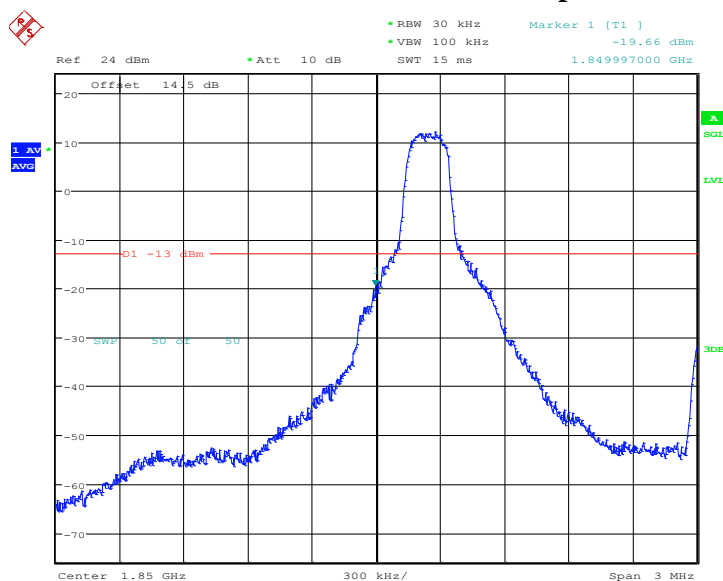
LTE Band2, 3MHz bandwidth, QPSK,(1,15) Mode, Above 1910MHz



Date: 8.JUL.2016 14:23:42

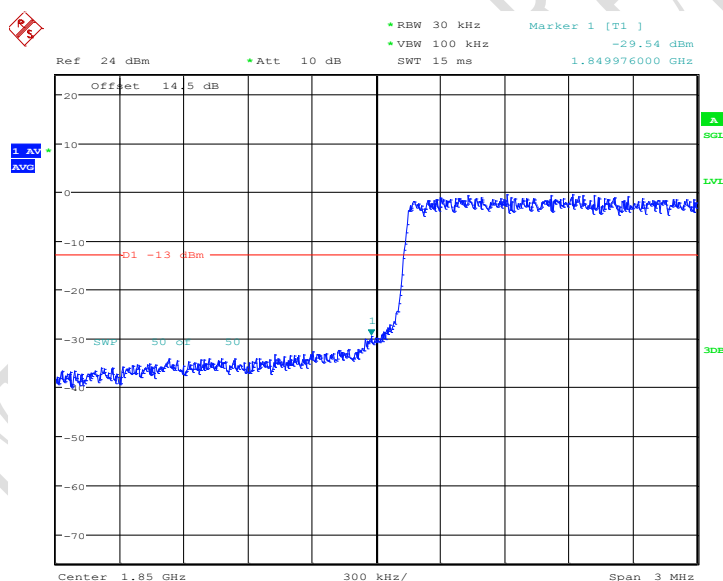
LTE Band2, 3MHz bandwidth, QPSK,(15,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:20:23

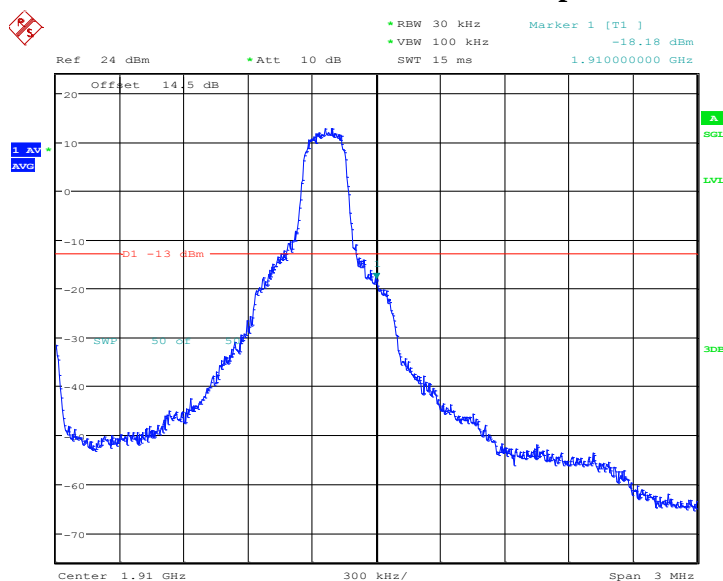
LTE Band2, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:20:40

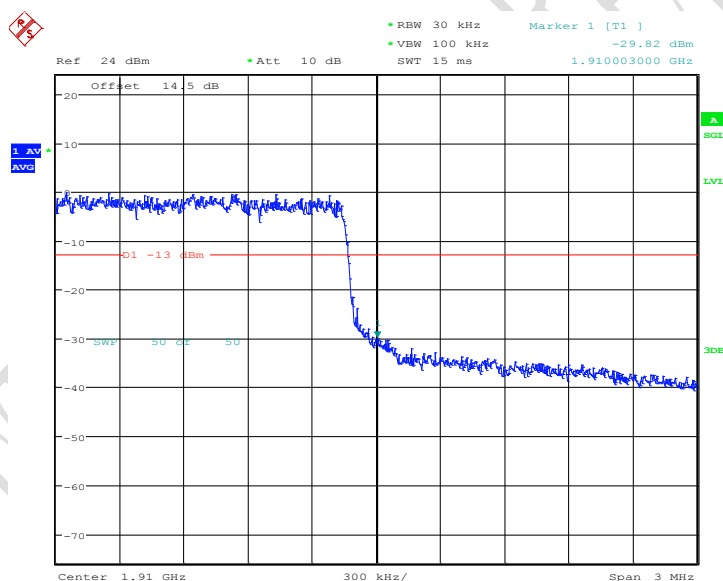
LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:22:00

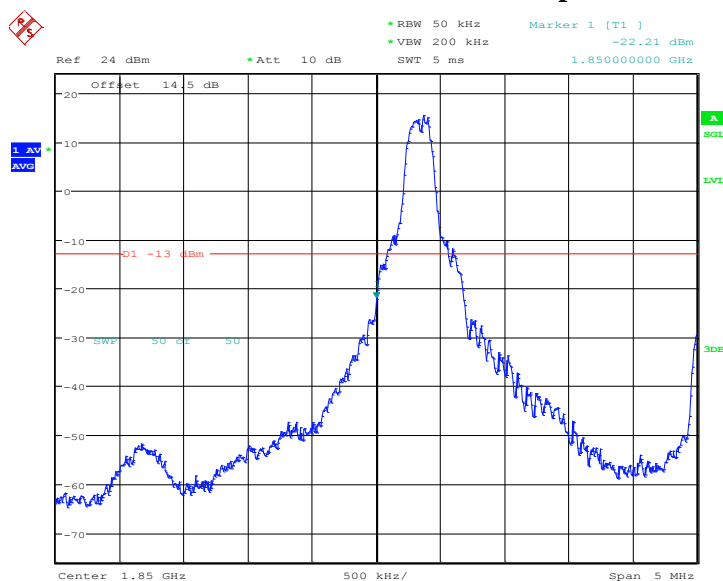
LTE Band2, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 1910MHz



Date: 8.JUL.2016 14:23:20

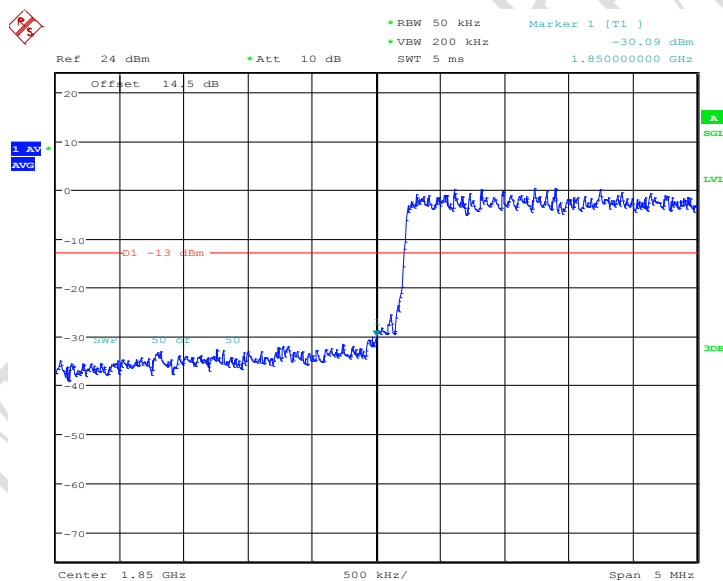
LTE Band2, 3MHz bandwidth, 16QAM,(15,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:24:54

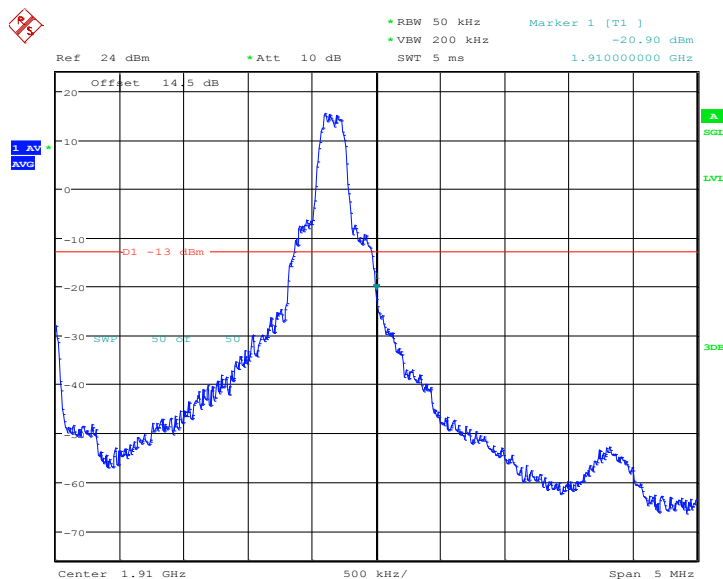
LTE Band2, 5MHz bandwidth, QPSK(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:26:01

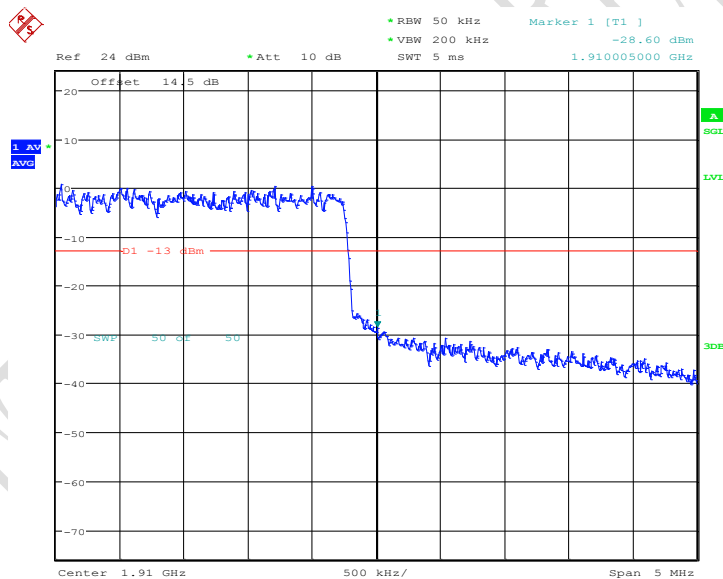
LTE Band2, 5MHz bandwidth, QPSK(25,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:26:41

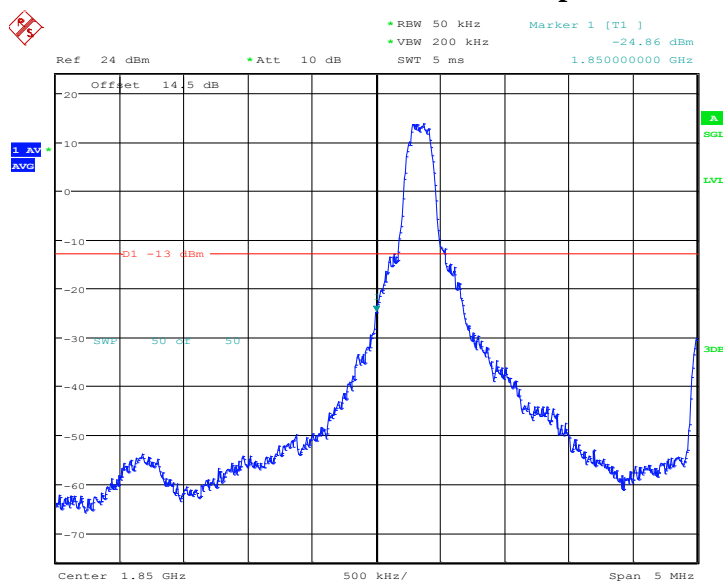
LTE Band2, 5MHz bandwidth, QPSK,(1,25) Mode, Above 1910MHz



Date: 8.JUL.2016 14:27:45

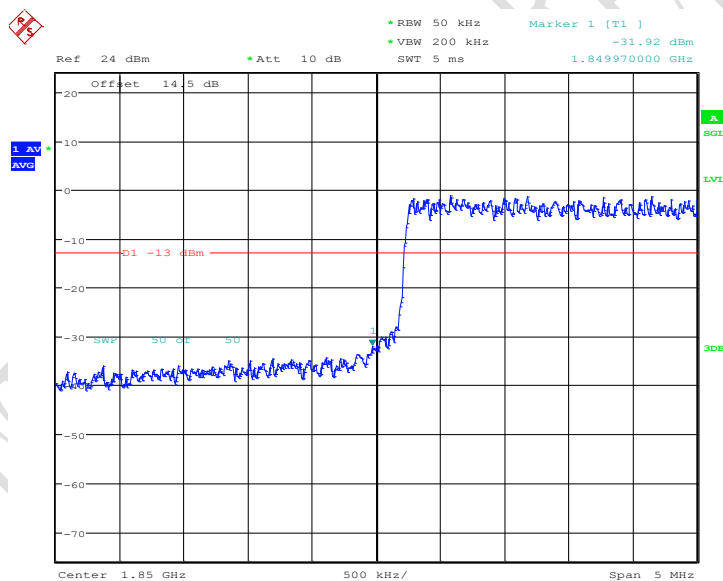
LTE Band2, 5MHz bandwidth, QPSK,(25,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:25:21

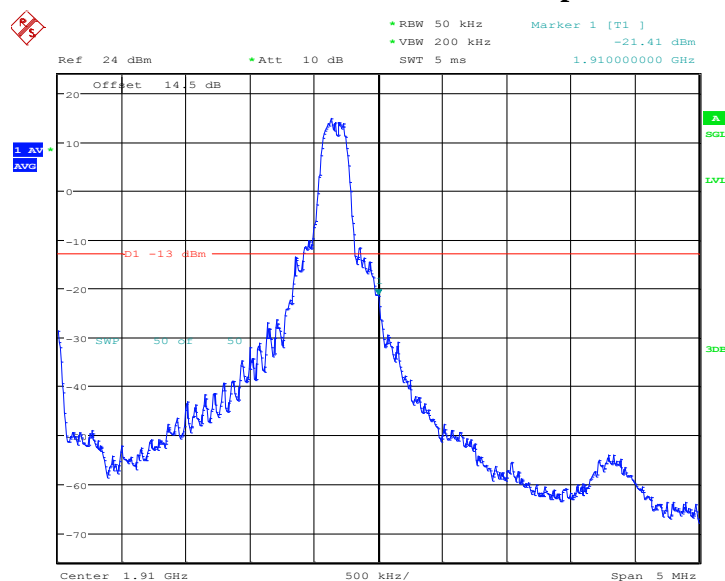
LTE Band2, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:25:44

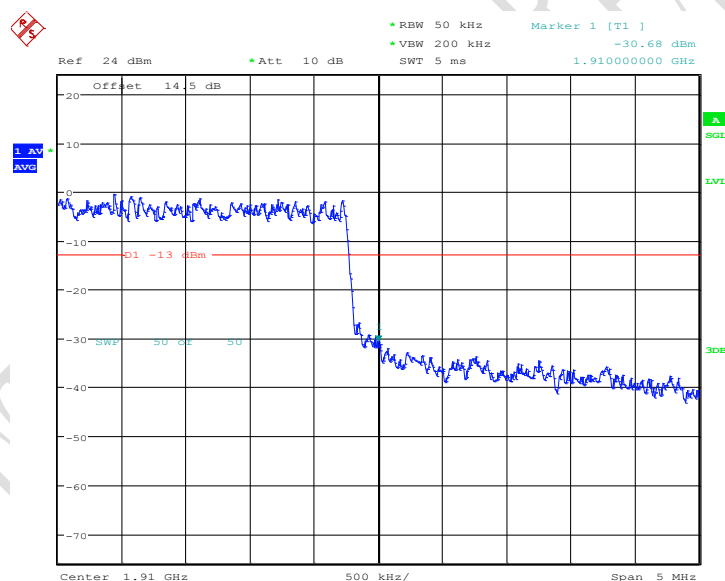
LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:27:10

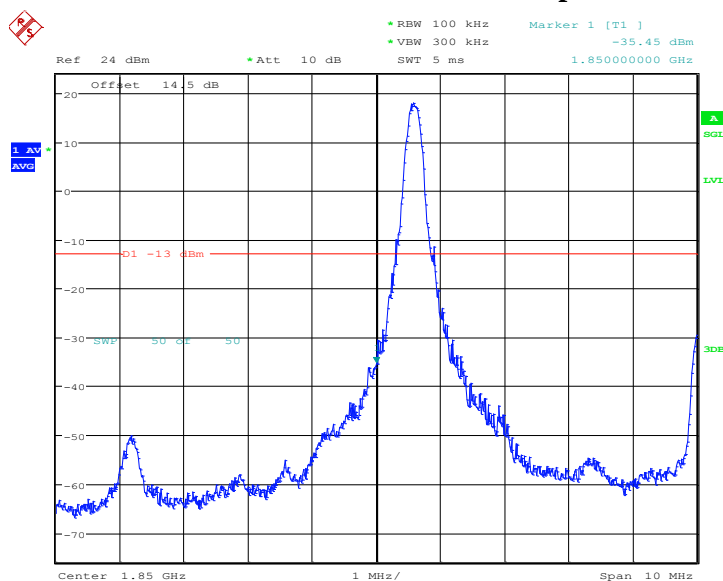
LTE Band2, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 1910MHz



Date: 8.JUL.2016 14:27:28

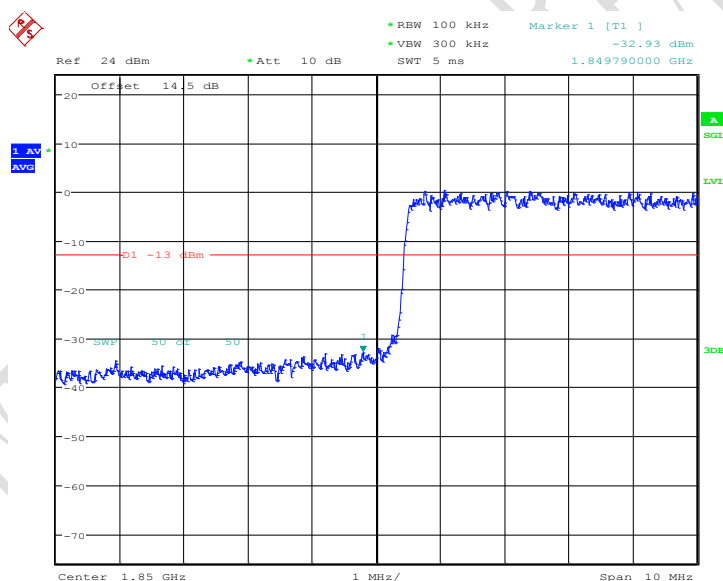
LTE Band2, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:28:48

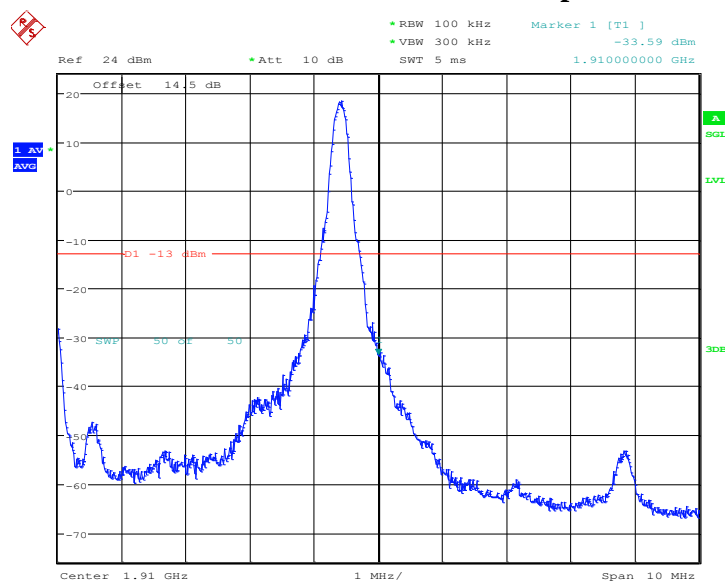
LTE Band2, 10MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:29:44

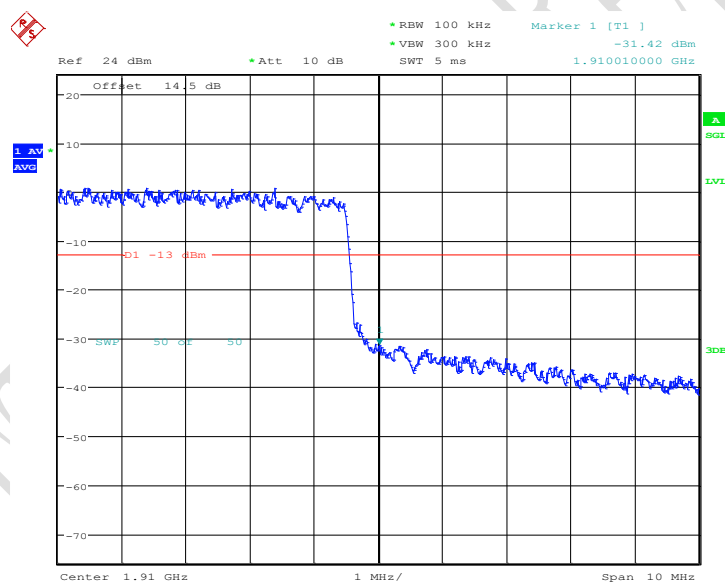
LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:30:32

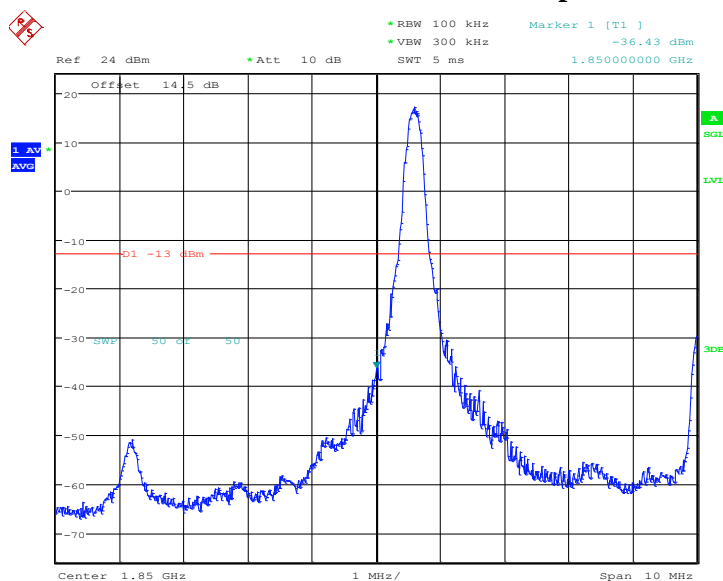
LTE Band2, 10MHz bandwidth, QPSK,(1,50) Mode, Above 1910MHz



Date: 8.JUL.2016 14:31:23

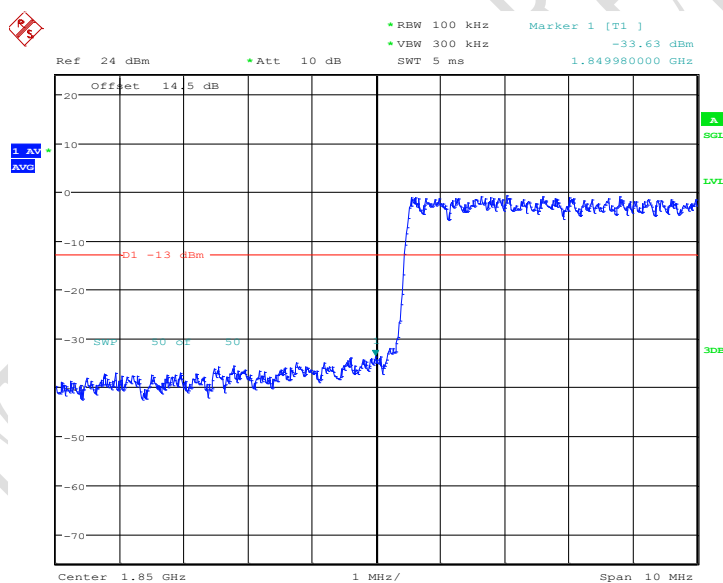
LTE Band2, 10MHz bandwidth, QPSK,(50,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:29:09

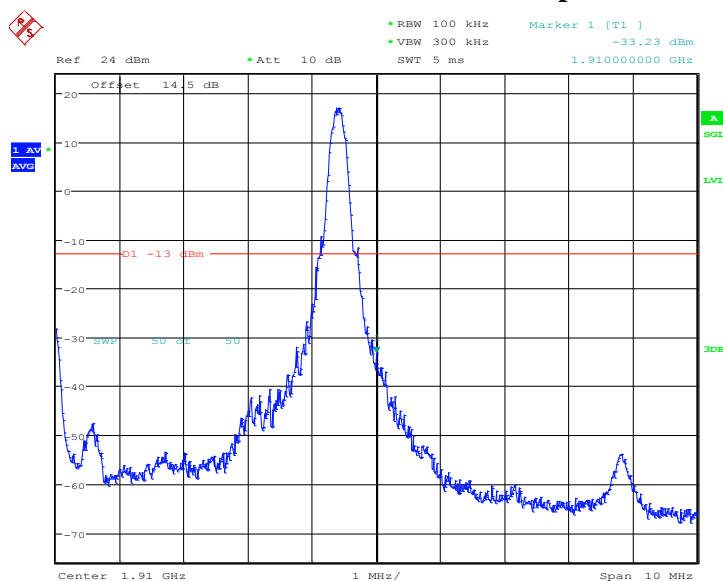
LTE Band2, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:29:25

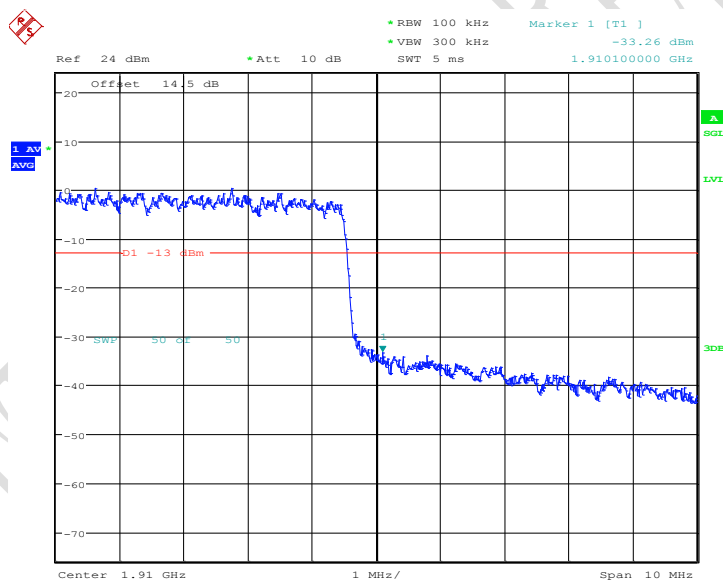
LTE Band2, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:30:47

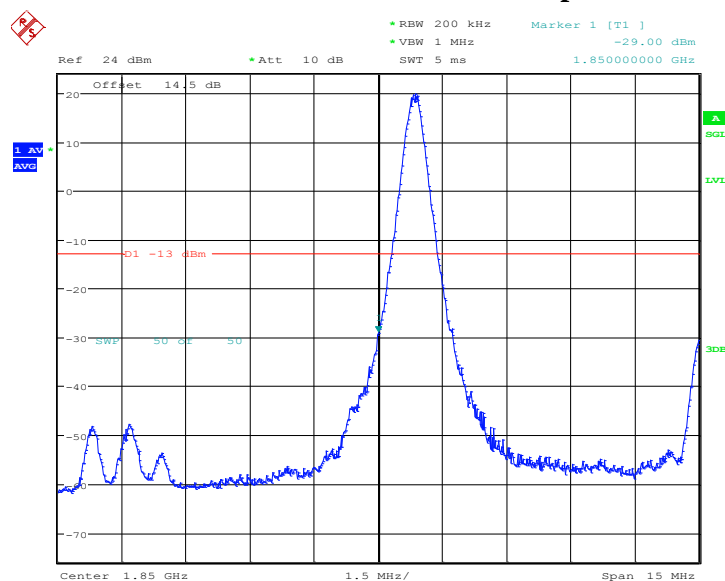
LTE Band2, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 1910MHz



Date: 8.JUL.2016 14:31:04

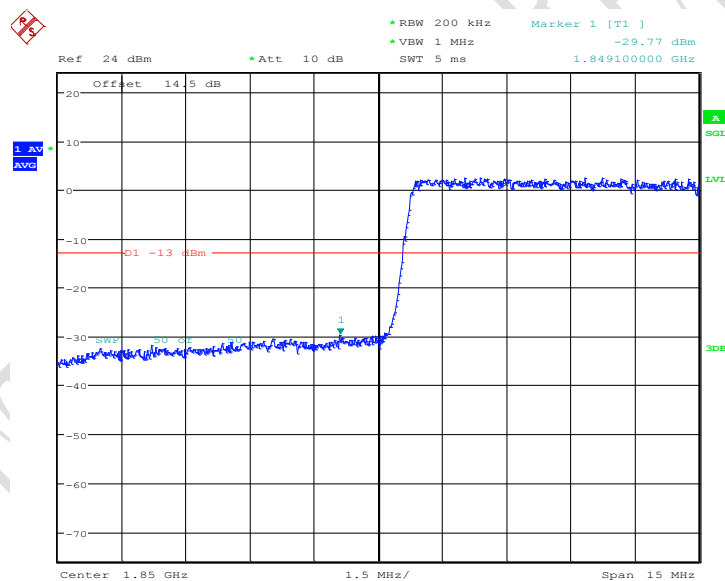
LTE Band2, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:32:24

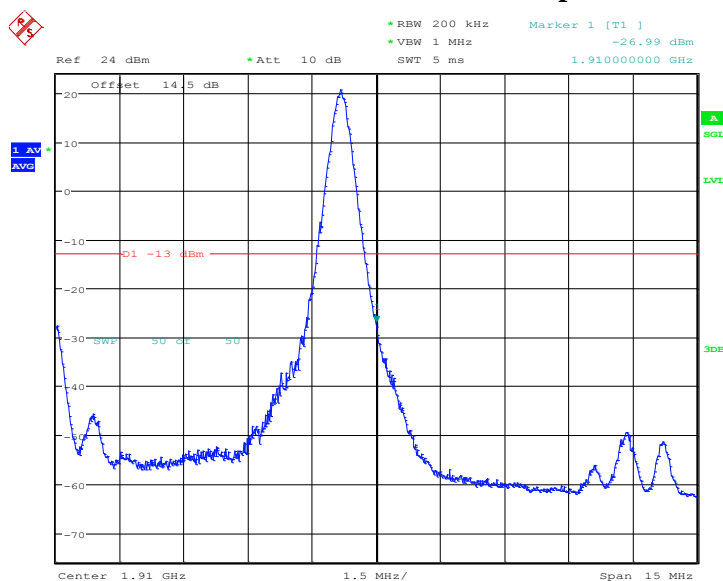
LTE Band2, 15MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:33:41

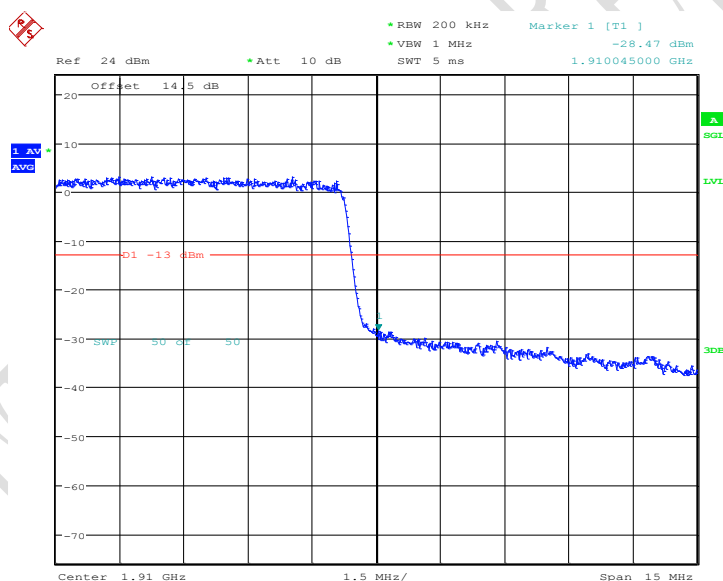
LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:34:19

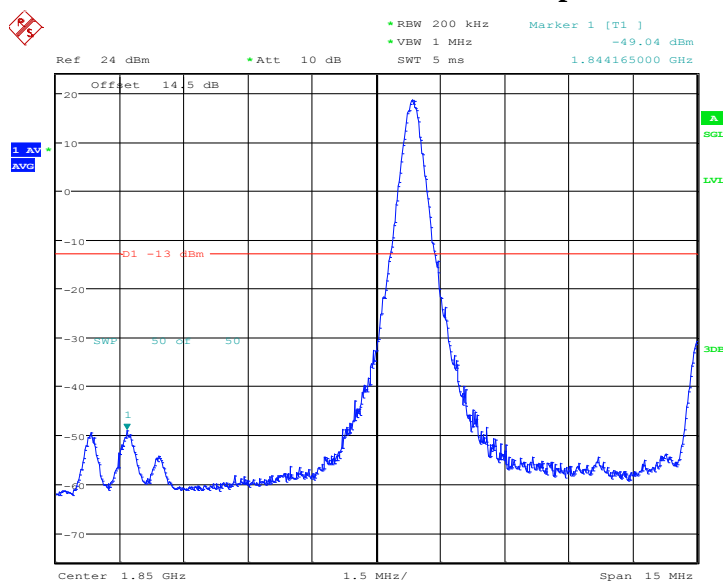
LTE Band2, 15MHz bandwidth, QPSK,(1,75) Mode, Above 1910MHz



Date: 8.JUL.2016 14:35:11

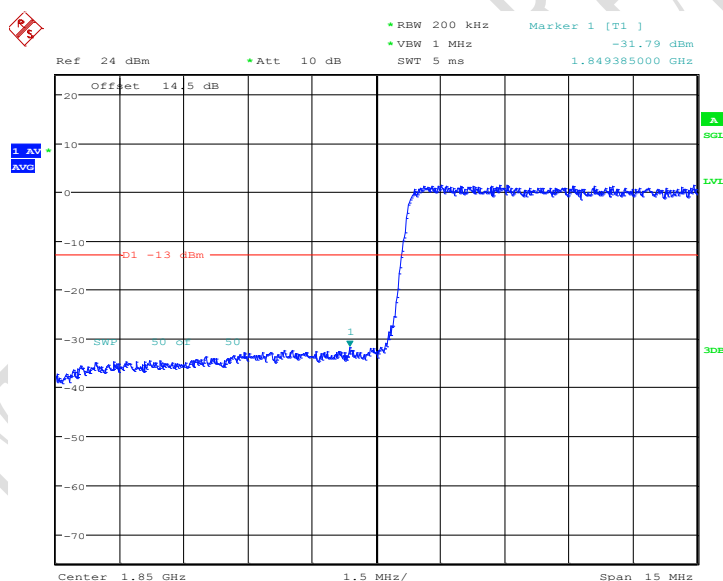
LTE Band2, 15MHz bandwidth, QPSK,(75,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:32:50

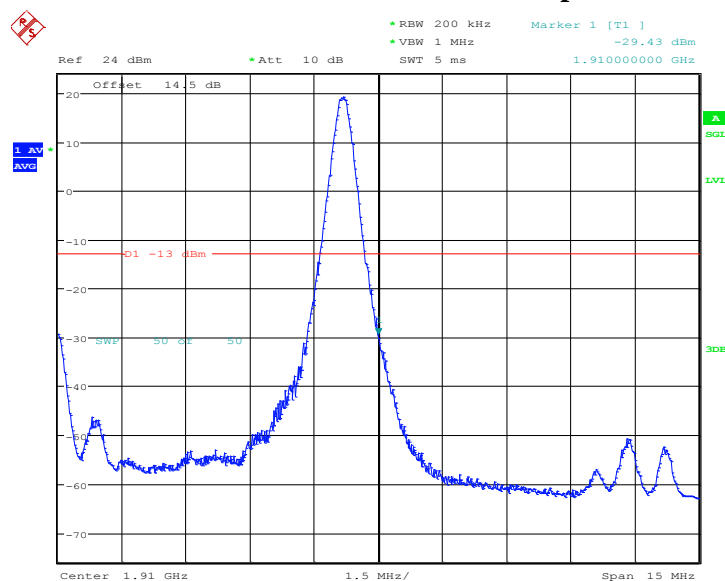
LTE Band2, 15MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:33:22

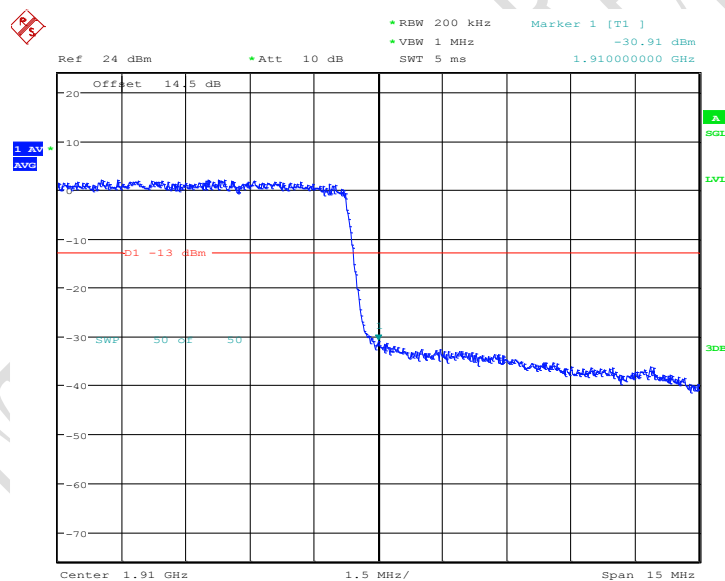
LTE Band2, 15MHz bandwidth, 16QAM,(75,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:34:35

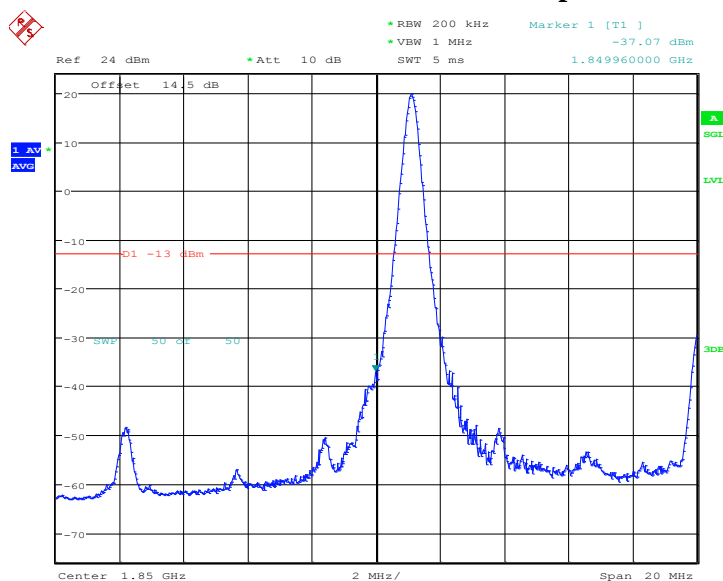
LTE Band2, 15MHz bandwidth, 16QAM,(1,75) Mode, Above 1910MHz



Date: 8.JUL.2016 14:34:55

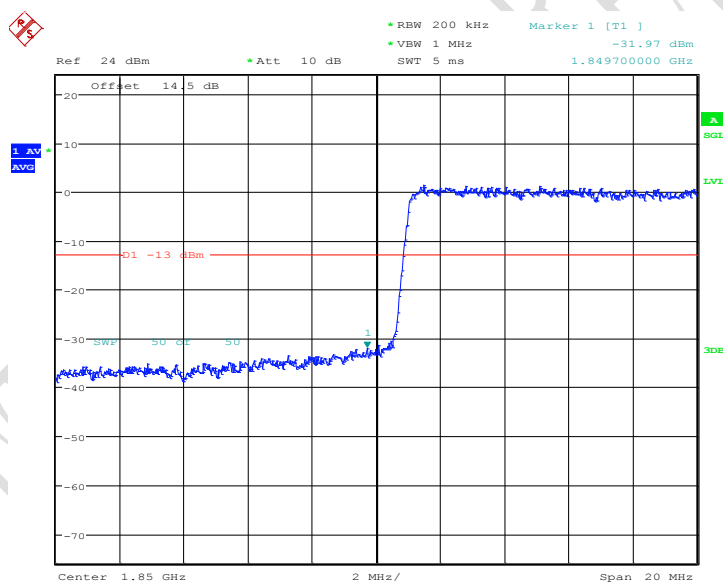
LTE Band2, 15MHz bandwidth, 16QAM,(75,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:36:02

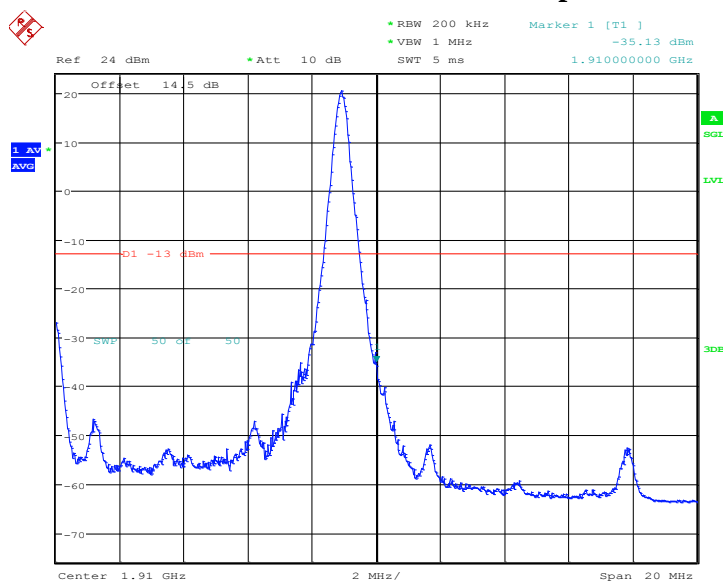
LTE Band2, 20MHz bandwidth, QPSK,(1,0) Mode , Below 1850MHz



Date: 8.JUL.2016 14:36:52

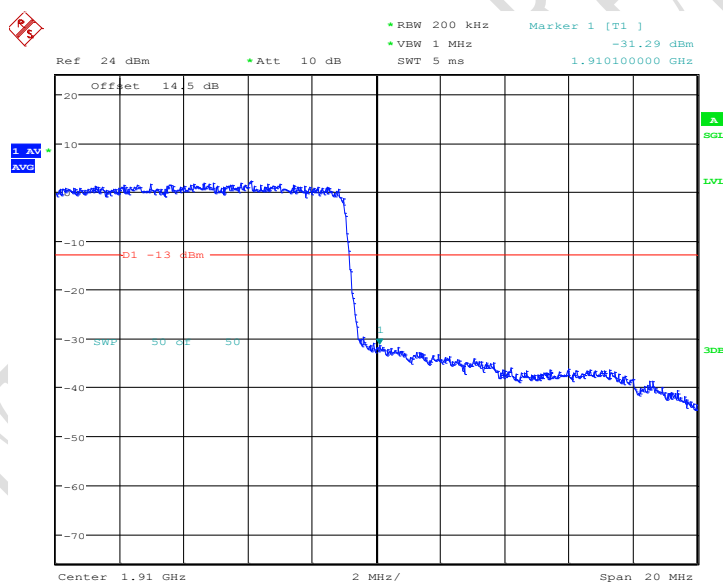
LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 14:37:29

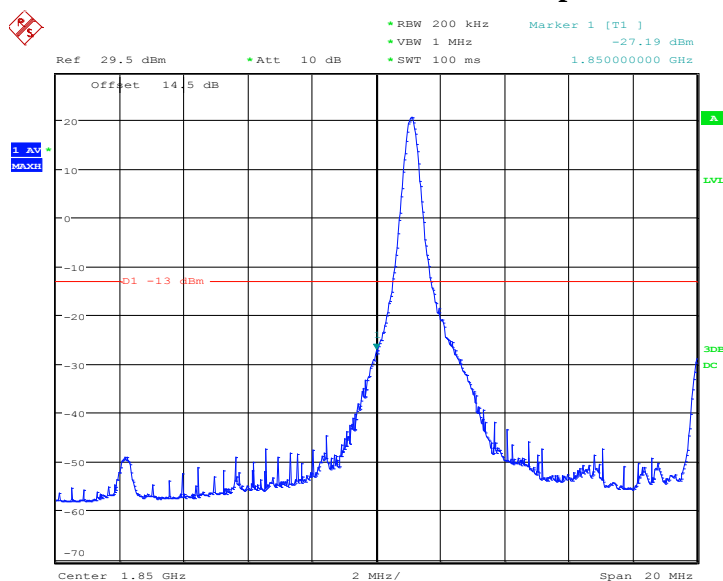
LTE Band2, 20MHz bandwidth, QPSK,(1,100) Mode, Above 1910MHz



Date: 8.JUL.2016 14:38:23

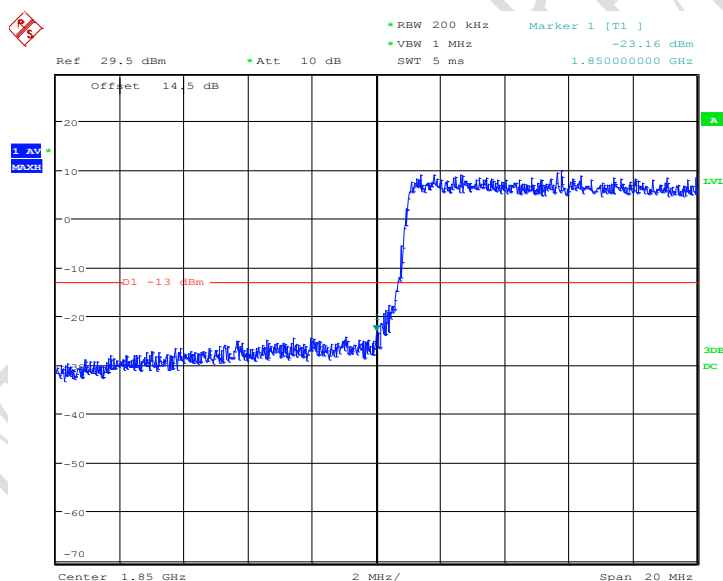
LTE Band2, 20MHz bandwidth, QPSK,(100,0) Mode, Above 1910MHz

Report No.: B16X50266-WWAN-Rev3



Date: 7.JUL.2016 17:35:38

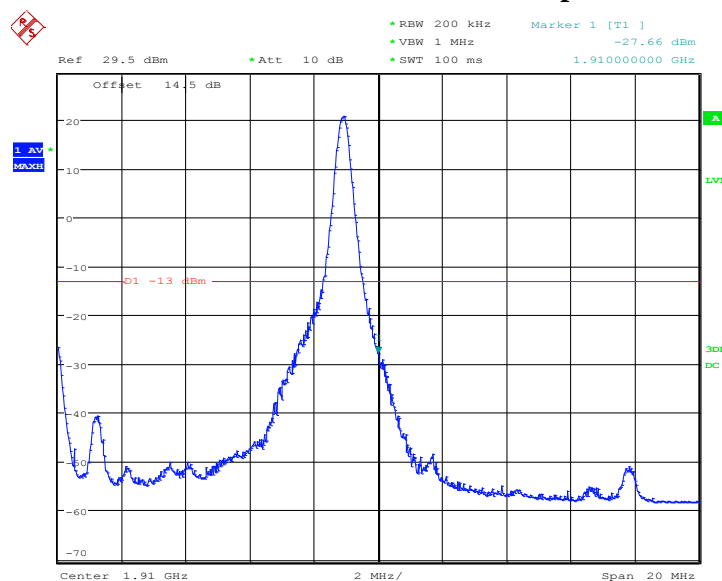
LTE Band2, 20MHz bandwidth, 16QAM,(1,0) Mode , Below 1850MHz



Date: 7.JUL.2016 17:35:57

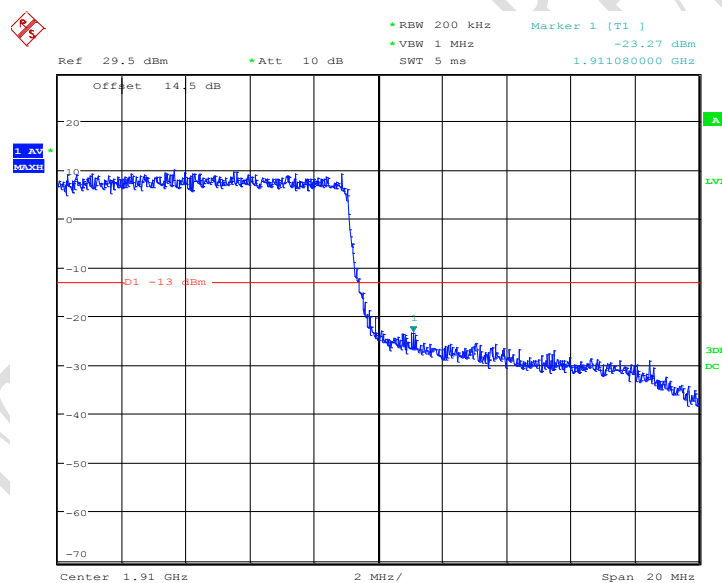
LTE Band2, 20MHz bandwidth, 16QAM,(100,0) Mode , Below 1850MHz

Report No.: B16X50266-WWAN-Rev3



Date: 7.JUL.2016 17:37:29

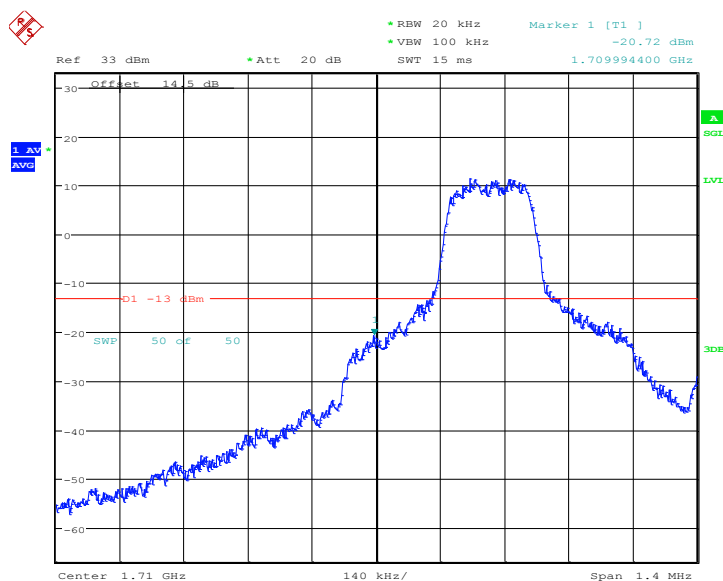
LTE Band2, 20MHz bandwidth, 16QAM,(1,100) Mode, Above 1910MHz



Date: 7.JUL.2016 17:38:14

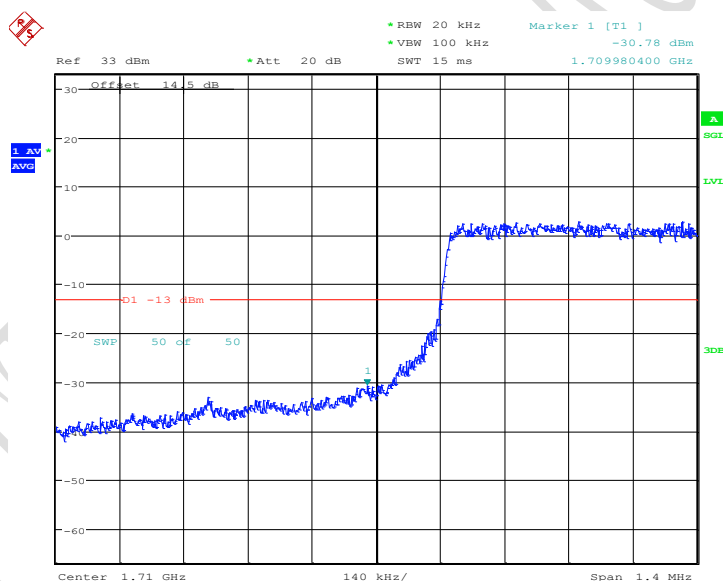
LTE Band2, 20MHz bandwidth, 16QAM,100,0) Mode, Above 1910MHz

5.5.11 LTE B4 Band Edge Results



Date: 8.JUL.2016 10:16:43

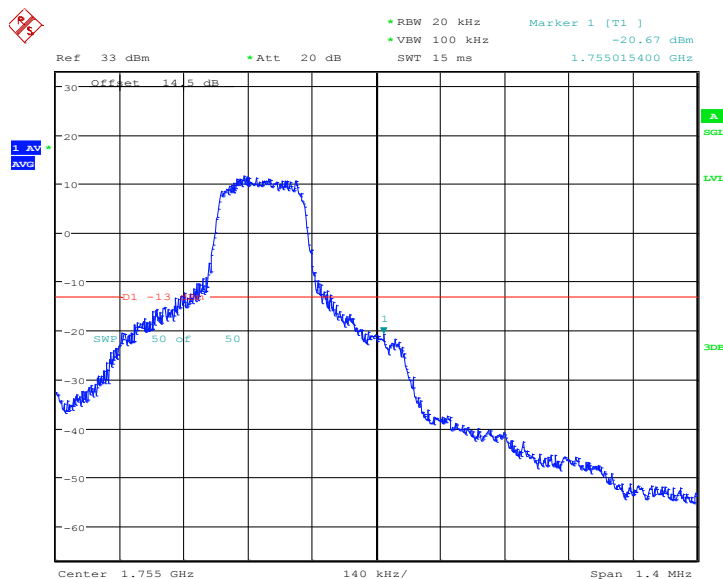
LTE Band4, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 1710MHz



Date: 8.JUL.2016 10:17:28

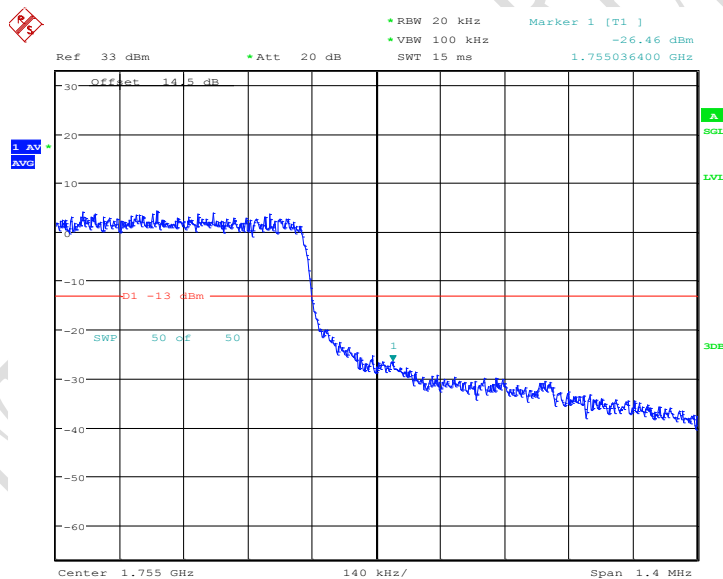
LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 1710MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:19:46

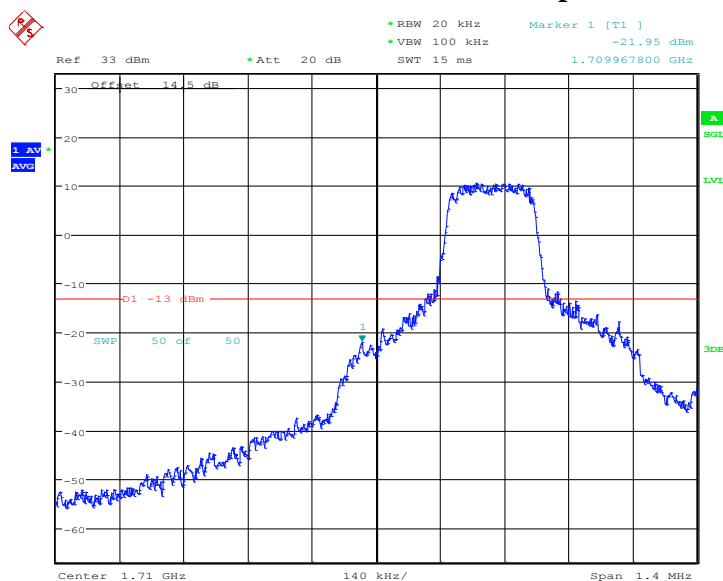
LTE Band4, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 1755MHz



Date: 8.JUL.2016 10:21:46

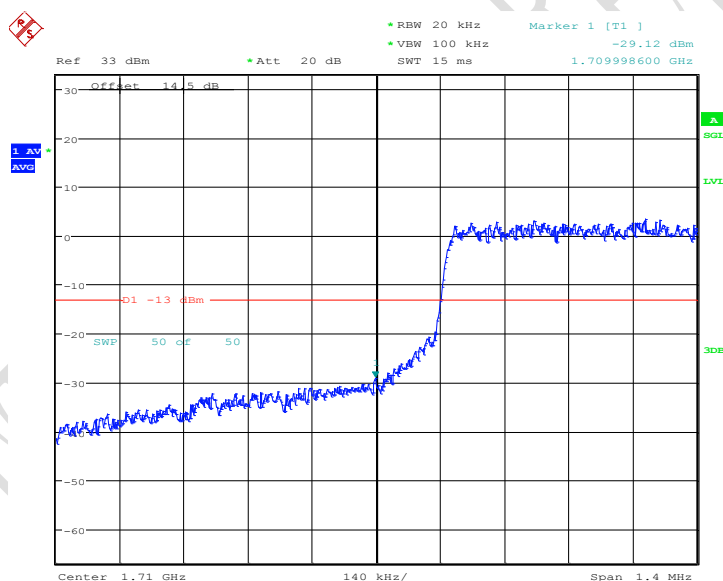
LTE Band4, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above 1755MHz

Report No.: B16X50266-WWAN-Rev3



Date: 8.JUL.2016 10:18:23

LTE Band4, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 1710MHz



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LTE Band4, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 1710MHz