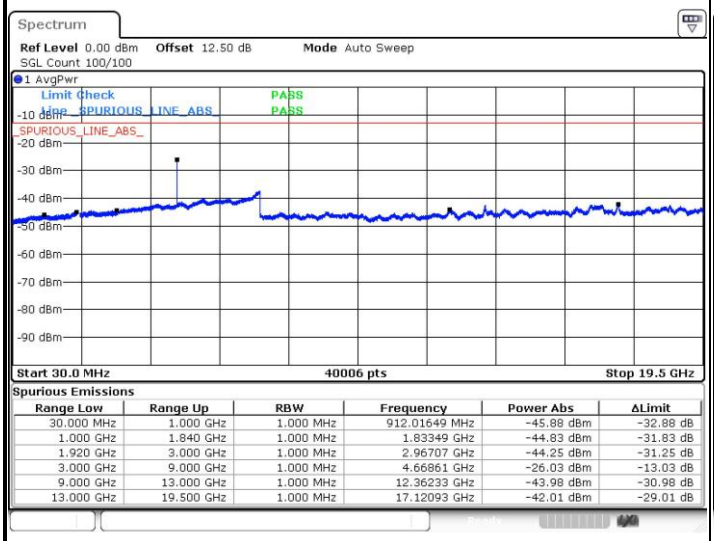
LTE Band 25 / 20MHz

Middle Channel / QPSK

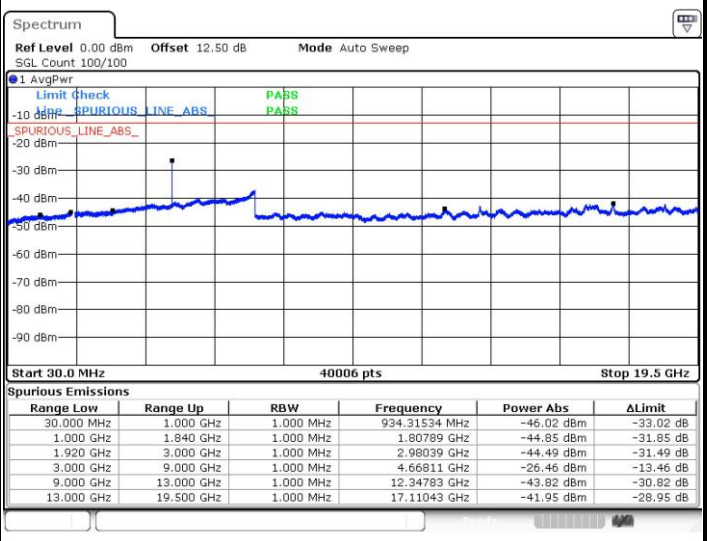


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.01649 MHz	-45.88 dBm	-32.88 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83349 GHz	-44.83 dBm	-31.83 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96707 GHz	-44.25 dBm	-31.25 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66861 GHz	-26.03 dBm	-13.03 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36233 GHz	-43.98 dBm	-30.98 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.12093 GHz	-42.01 dBm	-29.01 dB

Date: 27.JUN.2019 06:17:29

Middle Channel / 16QAM

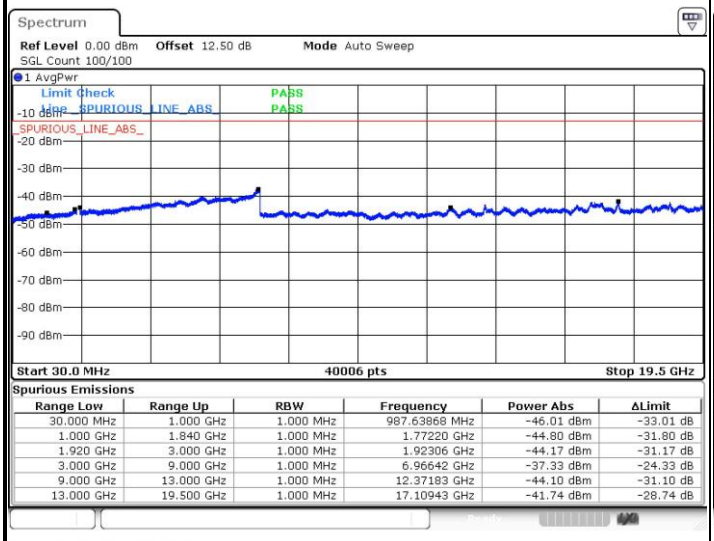


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	934.31534 MHz	-46.02 dBm	-33.02 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.80789 GHz	-44.85 dBm	-31.85 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.98039 GHz	-44.49 dBm	-31.49 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66811 GHz	-26.46 dBm	-13.46 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.34783 GHz	-43.82 dBm	-30.82 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.11043 GHz	-41.95 dBm	-28.95 dB

Date: 27.JUN.2019 06:18:31

Highest Channel / QPSK

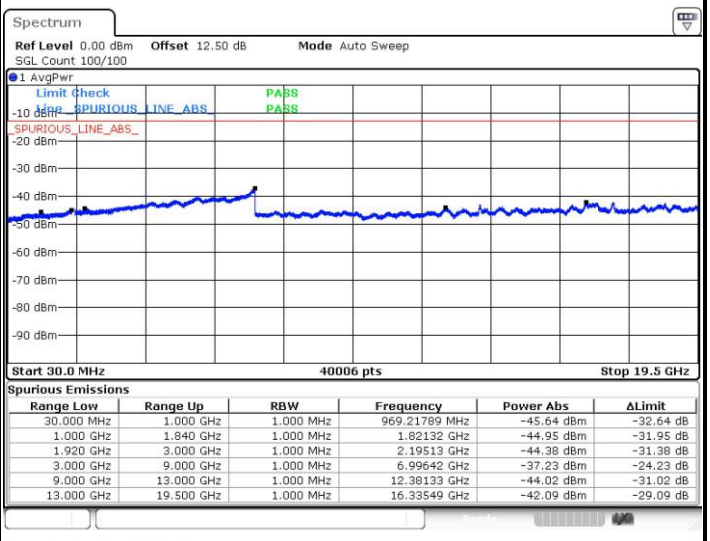


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	987.63868 MHz	-46.01 dBm	-33.01 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.77220 GHz	-44.80 dBm	-31.80 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92306 GHz	-44.17 dBm	-31.17 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96642 GHz	-37.33 dBm	-24.33 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37183 GHz	-44.10 dBm	-31.10 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10943 GHz	-41.74 dBm	-28.74 dB

Date: 27.JUN.2019 06:24:36

Highest Channel / 16QAM



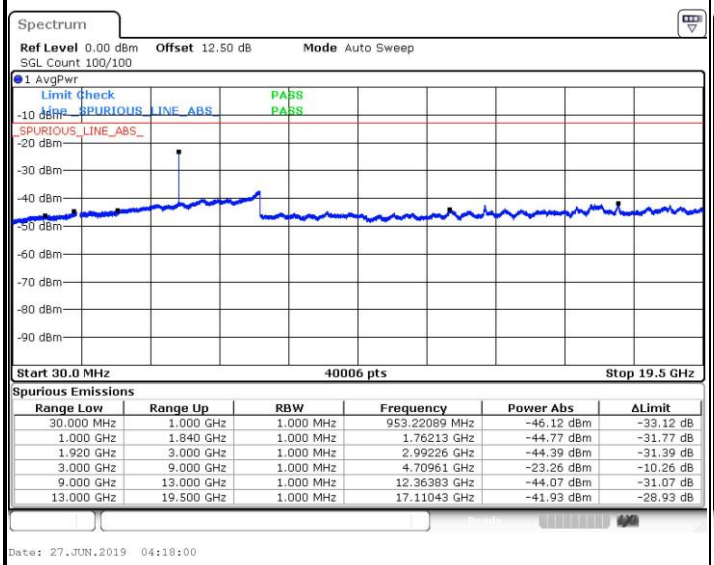
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.21789 MHz	-45.64 dBm	-32.64 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82132 GHz	-44.95 dBm	-31.95 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.19513 GHz	-44.38 dBm	-31.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99642 GHz	-37.23 dBm	-24.23 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.38133 GHz	-44.02 dBm	-31.02 dB
13.000 GHz	19.500 GHz	1.000 MHz	16.33549 GHz	-42.09 dBm	-29.09 dB

Date: 27.JUN.2019 06:25:39

LTE Band 25 / 1.4MHz

Lowest Channel / 64QAM

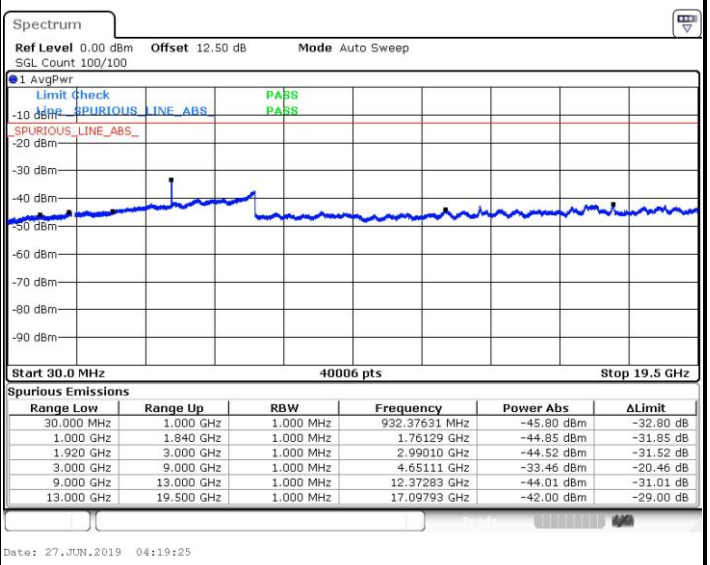


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	953.22089 MHz	-46.12 dBm	-33.12 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76213 GHz	-44.77 dBm	-31.77 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99226 GHz	-44.39 dBm	-31.39 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-23.26 dBm	-10.26 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36383 GHz	-44.07 dBm	-31.07 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.11043 GHz	-41.93 dBm	-28.93 dB

Date: 27.JUN.2019 04:18:00

Middle Channel / 64QAM

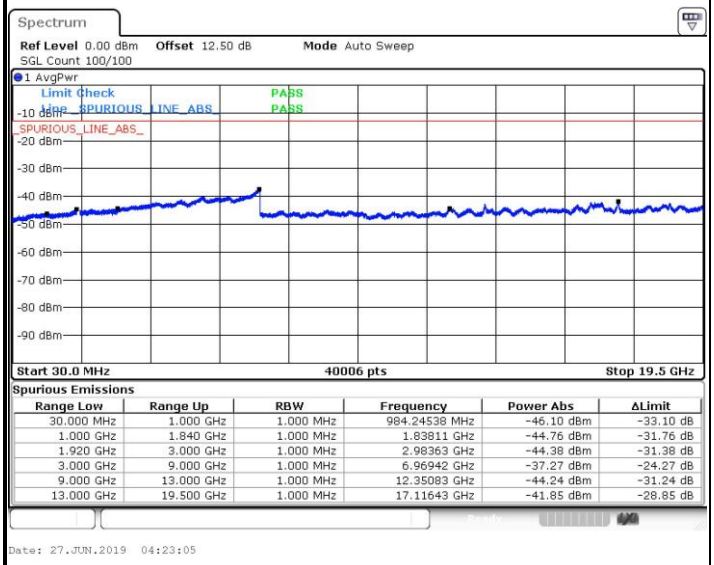


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	932.37631 MHz	-45.80 dBm	-32.80 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76129 GHz	-44.85 dBm	-31.85 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99010 GHz	-44.52 dBm	-31.52 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65111 GHz	-33.46 dBm	-20.46 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37283 GHz	-44.01 dBm	-31.01 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.09793 GHz	-42.00 dBm	-29.00 dB

Date: 27.JUN.2019 04:19:25

Highest Channel / 64QAM



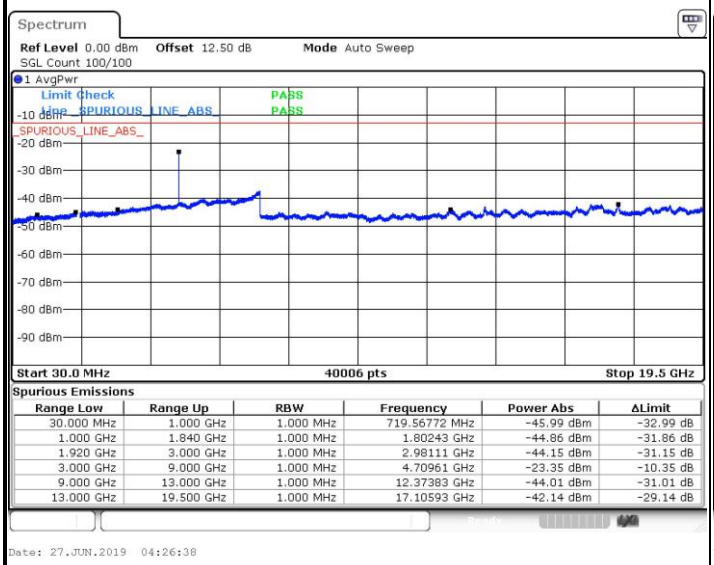
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	984.24538 MHz	-46.10 dBm	-33.10 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83811 GHz	-44.76 dBm	-31.76 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.98363 GHz	-44.38 dBm	-31.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96942 GHz	-37.27 dBm	-24.27 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35083 GHz	-44.24 dBm	-31.24 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.11643 GHz	-41.85 dBm	-28.85 dB

Date: 27.JUN.2019 04:23:05

LTE Band 25 / 3MHz

Lowest Channel / 64QAM

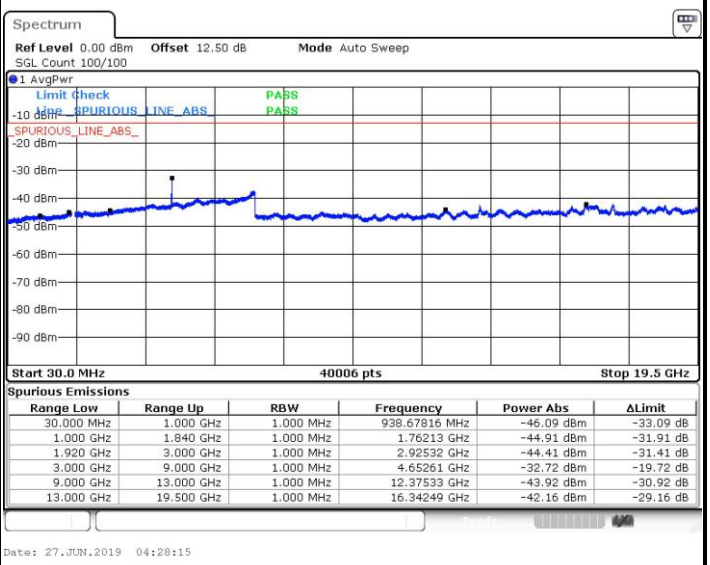


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	719.56772 MHz	-45.99 dBm	-32.99 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.80243 GHz	-44.86 dBm	-31.86 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.98111 GHz	-44.15 dBm	-31.15 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70961 GHz	-23.35 dBm	-10.35 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37383 GHz	-44.01 dBm	-31.01 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10593 GHz	-42.14 dBm	-29.14 dB

Date: 27.JUN.2019 04:26:38

Middle Channel / 64QAM

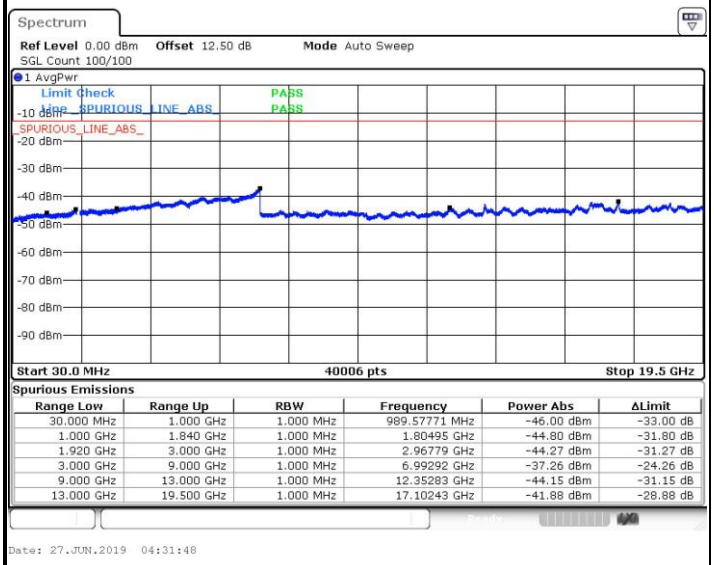


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	938.67816 MHz	-46.09 dBm	-33.09 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76213 GHz	-44.91 dBm	-31.91 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.92532 GHz	-44.41 dBm	-31.41 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65261 GHz	-32.72 dBm	-19.72 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37533 GHz	-43.92 dBm	-30.92 dB
13.000 GHz	19.500 GHz	1.000 MHz	16.34249 GHz	-42.16 dBm	-29.16 dB

Date: 27.JUN.2019 04:28:15

Highest Channel / 64QAM

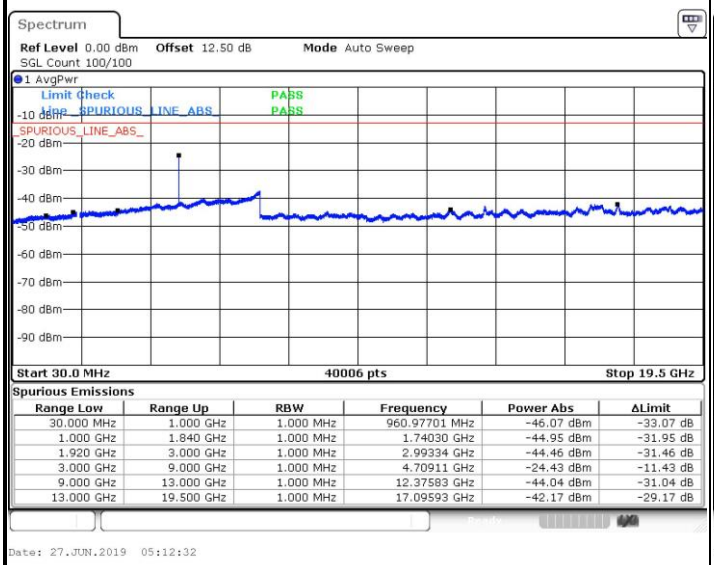


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.57771 MHz	-46.00 dBm	-33.00 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.80495 GHz	-44.80 dBm	-31.80 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96779 GHz	-44.27 dBm	-31.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99292 GHz	-37.26 dBm	-24.26 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35283 GHz	-44.15 dBm	-31.15 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10243 GHz	-41.88 dBm	-28.88 dB

Date: 27.JUN.2019 04:31:48

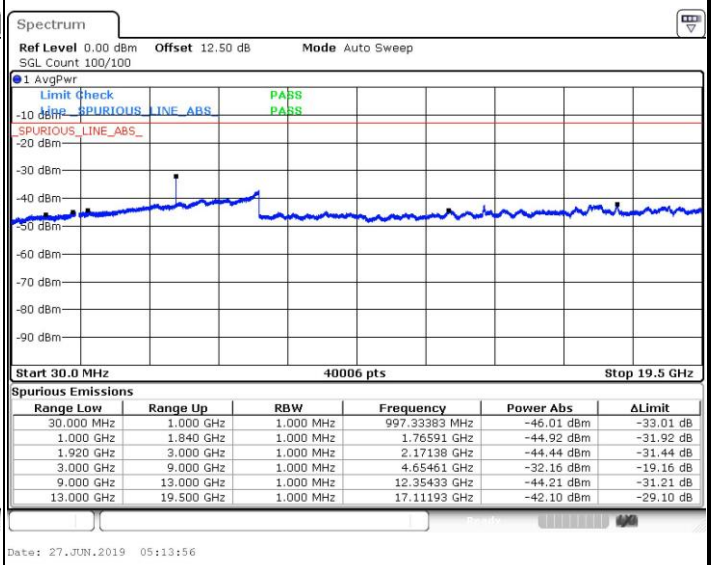
LTE Band 25 / 5MHz	
Lowest Channel / 64QAM	**Middle Channel / 64QAM**



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.97701 MHz	-46.07 dBm	-33.07 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.74030 GHz	-44.95 dBm	-31.95 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99334 GHz	-44.46 dBm	-31.46 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70911 GHz	-24.43 dBm	-11.43 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37583 GHz	-44.04 dBm	-31.04 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.09593 GHz	-42.17 dBm	-29.17 dB

Date: 27.JUN.2019 05:12:32

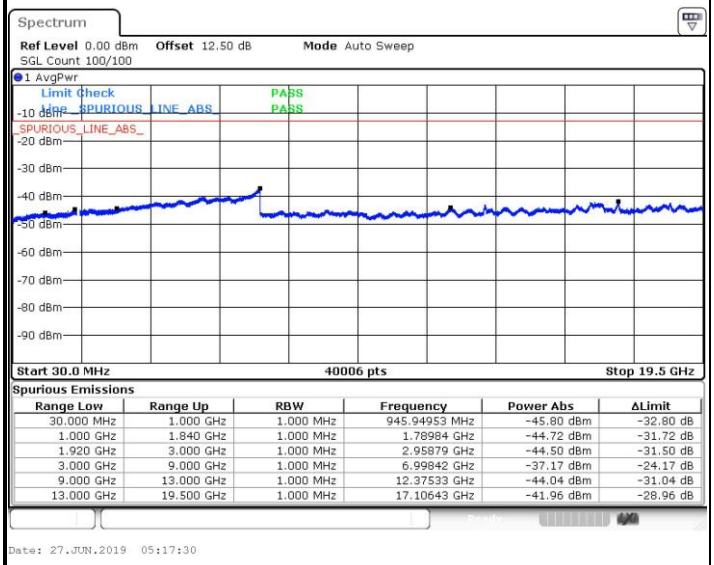


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.33383 MHz	-46.01 dBm	-33.01 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76591 GHz	-44.92 dBm	-31.92 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.17138 GHz	-44.44 dBm	-31.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.65461 GHz	-32.16 dBm	-19.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35433 GHz	-44.21 dBm	-31.21 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.11193 GHz	-42.10 dBm	-29.10 dB

Date: 27.JUN.2019 05:13:56

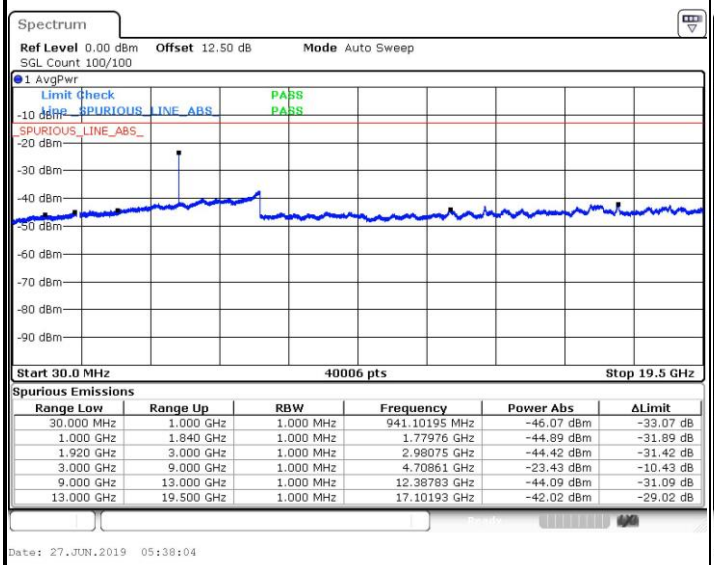
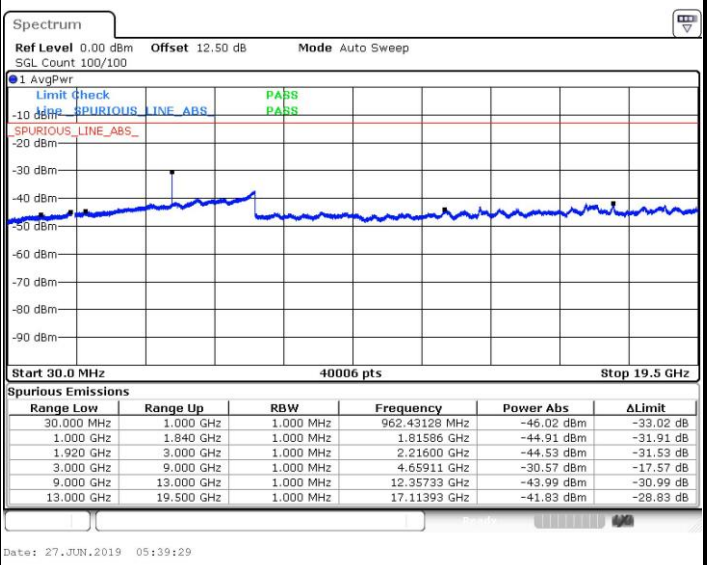
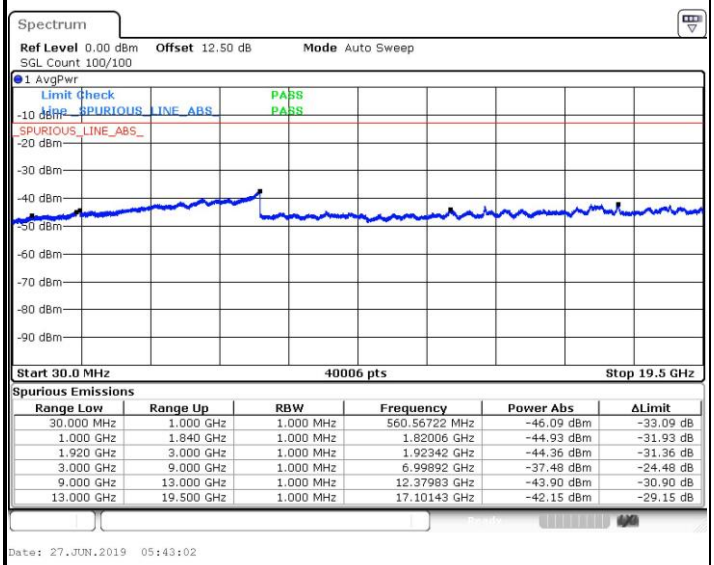
Highest Channel / 64QAM	

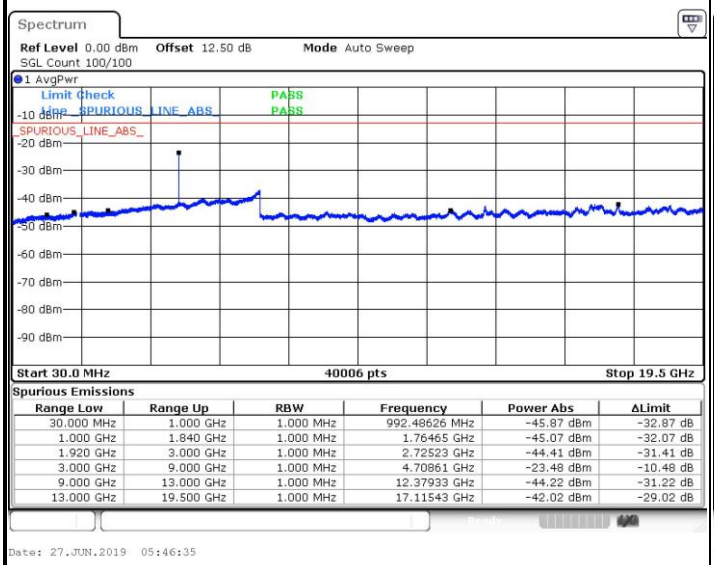
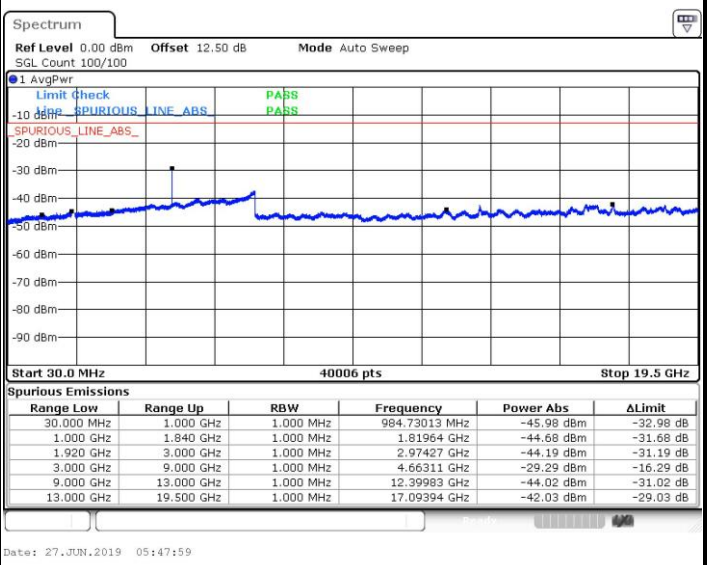
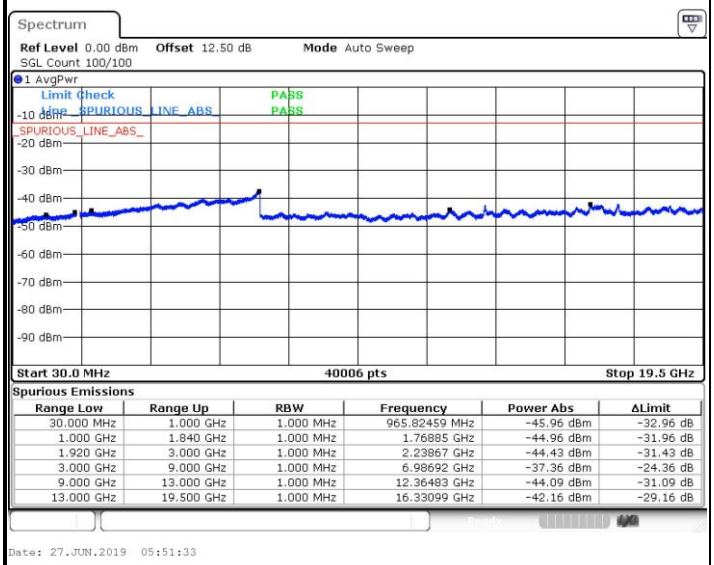


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	945.94953 MHz	-45.80 dBm	-32.80 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.78984 GHz	-44.72 dBm	-31.72 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.95879 GHz	-44.50 dBm	-31.50 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99842 GHz	-37.17 dBm	-24.17 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37533 GHz	-44.04 dBm	-31.04 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10643 GHz	-41.96 dBm	-28.96 dB

Date: 27.JUN.2019 05:17:30

LTE Band 25 / 10MHz	
Lowest Channel / 64QAM	**Middle Channel / 64QAM**
	
Highest Channel / 64QAM	
	

LTE Band 25 / 15MHz	
Lowest Channel / 64QAM	**Middle Channel / 64QAM**
	
Highest Channel / 64QAM	
	

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.48626 MHz	-45.87 dBm	-32.87 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76465 GHz	-45.07 dBm	-32.07 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.72523 GHz	-44.41 dBm	-31.41 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70861 GHz	-23.48 dBm	-10.48 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.37933 GHz	-44.22 dBm	-31.22 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.11543 GHz	-42.02 dBm	-29.02 dB

Date: 27.JUN.2019 05:46:35

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	984.73013 MHz	-45.98 dBm	-32.98 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.81964 GHz	-44.68 dBm	-31.68 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97427 GHz	-44.19 dBm	-31.19 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66311 GHz	-29.29 dBm	-16.29 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39983 GHz	-44.02 dBm	-31.02 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.09394 GHz	-42.03 dBm	-29.03 dB

Date: 27.JUN.2019 05:47:59

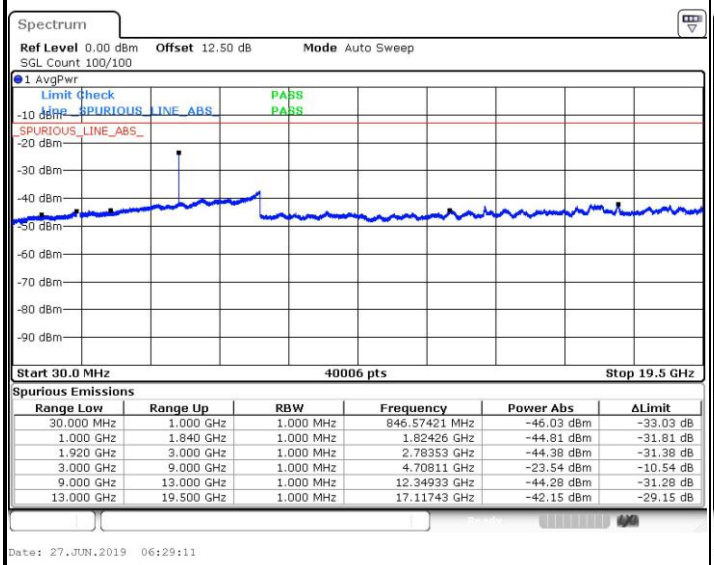
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.82459 MHz	-45.96 dBm	-32.96 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76885 GHz	-44.96 dBm	-31.96 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.23867 GHz	-44.43 dBm	-31.43 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98692 GHz	-37.36 dBm	-24.36 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.36483 GHz	-44.09 dBm	-31.09 dB
13.000 GHz	19.500 GHz	1.000 MHz	16.33099 GHz	-42.16 dBm	-29.16 dB

Date: 27.JUN.2019 05:51:33

LTE Band 25 / 20MHz

Lowest Channel / 64QAM

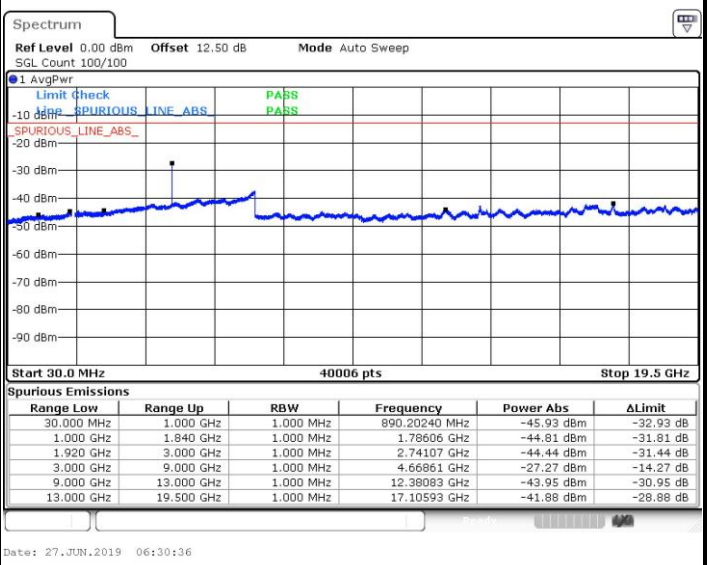


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	846.57421 MHz	-46.03 dBm	-33.03 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.82426 GHz	-44.81 dBm	-31.81 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.78353 GHz	-44.38 dBm	-31.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.70811 GHz	-23.54 dBm	-10.54 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.34933 GHz	-44.28 dBm	-31.28 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.11743 GHz	-42.15 dBm	-29.15 dB

Date: 27.JUN.2019 06:29:11

Middle Channel / 64QAM

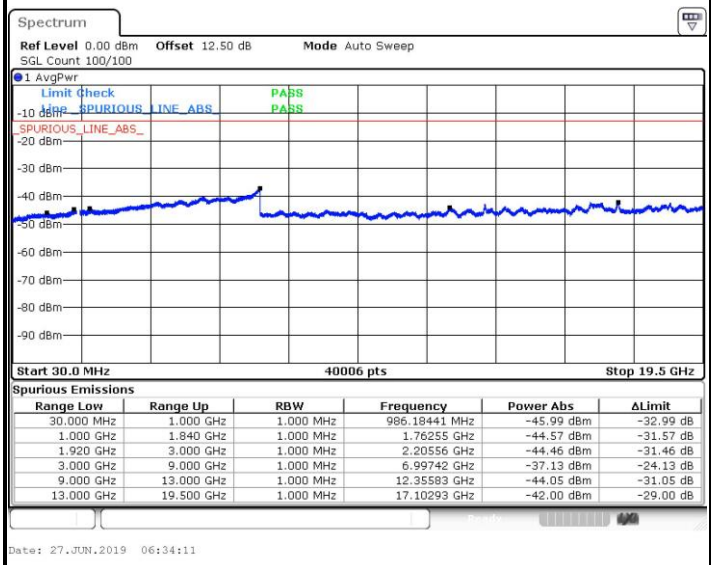


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	890.20240 MHz	-45.93 dBm	-32.93 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.78606 GHz	-44.81 dBm	-31.81 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.74107 GHz	-44.44 dBm	-31.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	4.66861 GHz	-27.27 dBm	-14.27 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.38083 GHz	-43.95 dBm	-30.95 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10593 GHz	-41.88 dBm	-28.88 dB

Date: 27.JUN.2019 06:30:36

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.18441 MHz	-45.99 dBm	-32.99 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76255 GHz	-44.57 dBm	-31.57 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.20556 GHz	-44.46 dBm	-31.46 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99742 GHz	-37.13 dBm	-24.13 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.35583 GHz	-44.05 dBm	-31.05 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.10293 GHz	-42.00 dBm	-29.00 dB

Date: 27.JUN.2019 06:34:11

Frequency Stability

Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0068	PASS
40	Normal Voltage	0.0095	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0080	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0104	
-30	Normal Voltage	0.0063	
20	Maximum Voltage	0.0058	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0078	

Note:

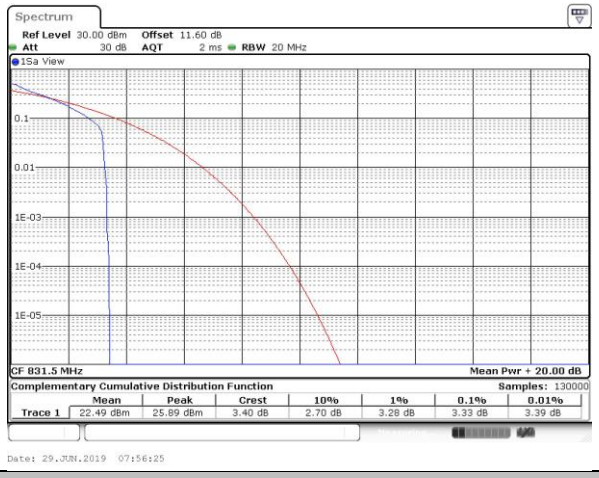
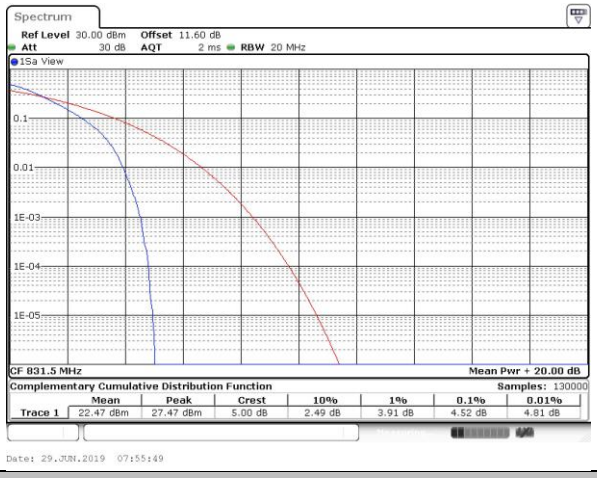
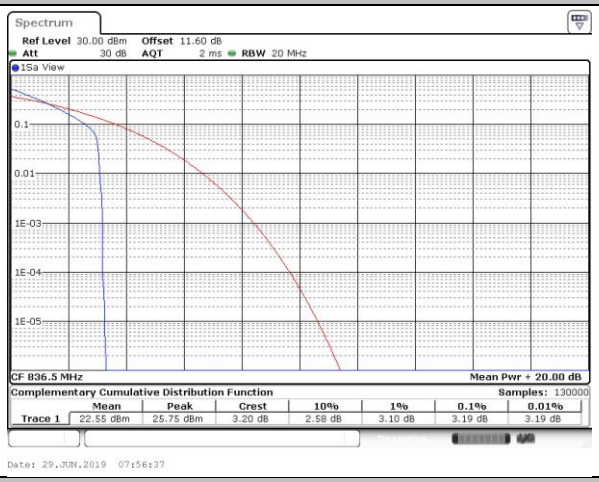
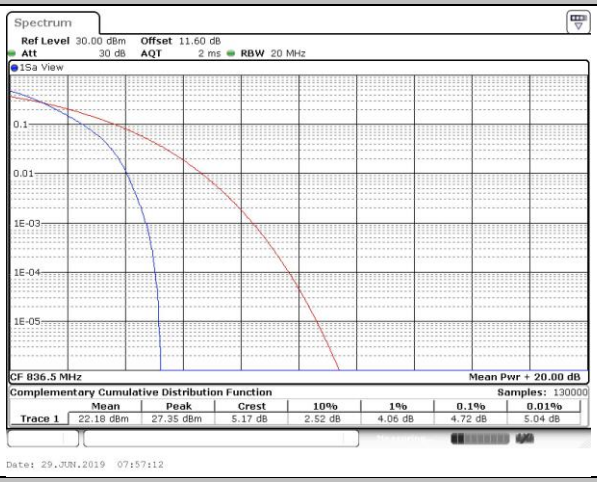
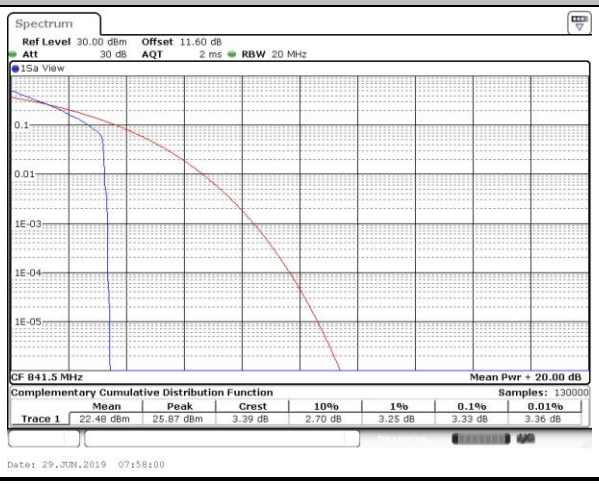
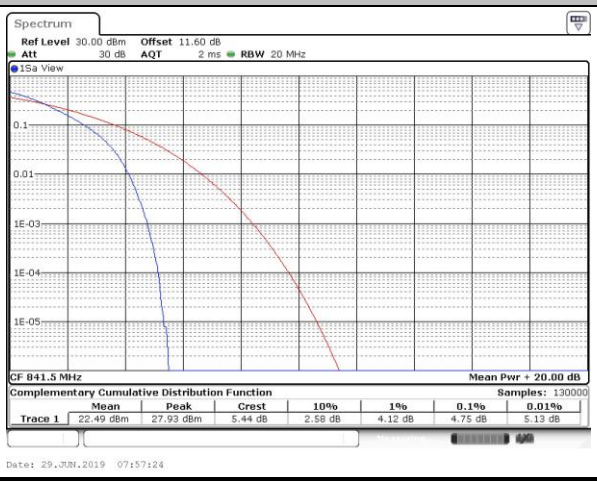
1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.4 V.

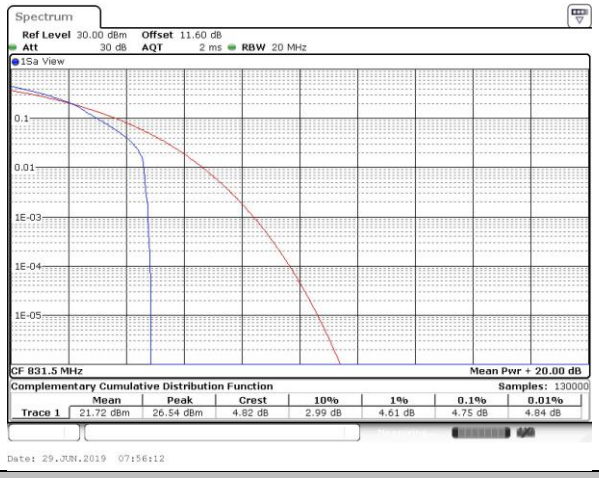
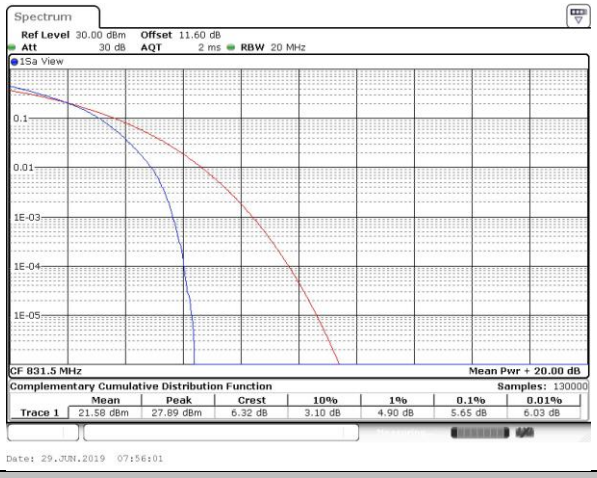
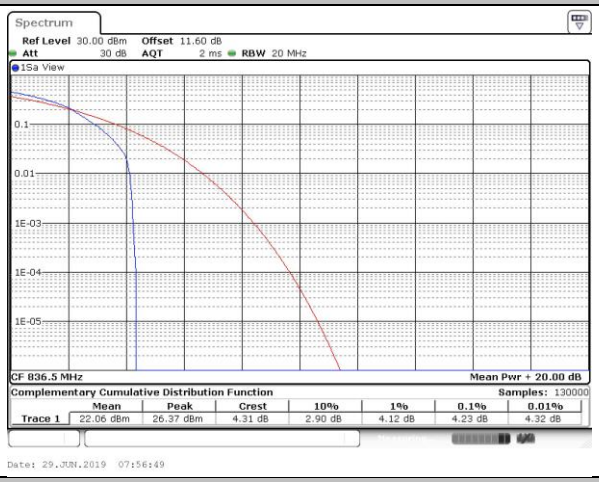
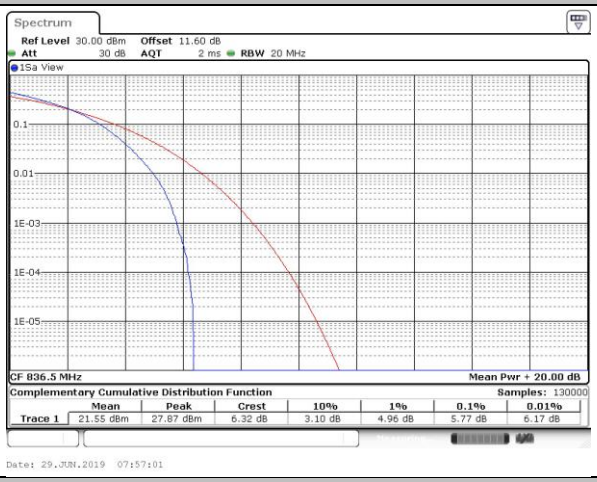
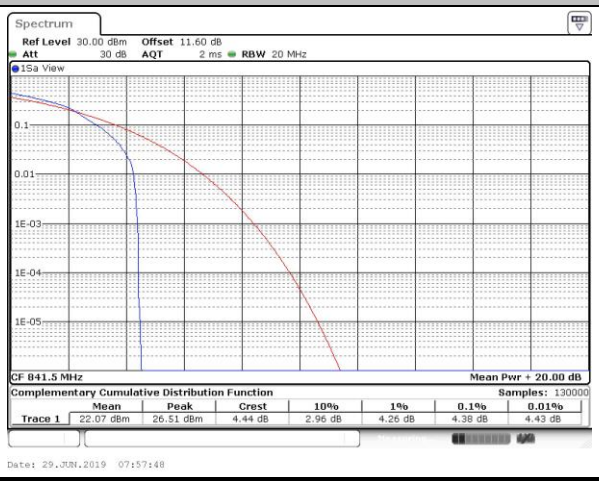
2. The frequency fundamental emissions stay within the authorized frequency block.

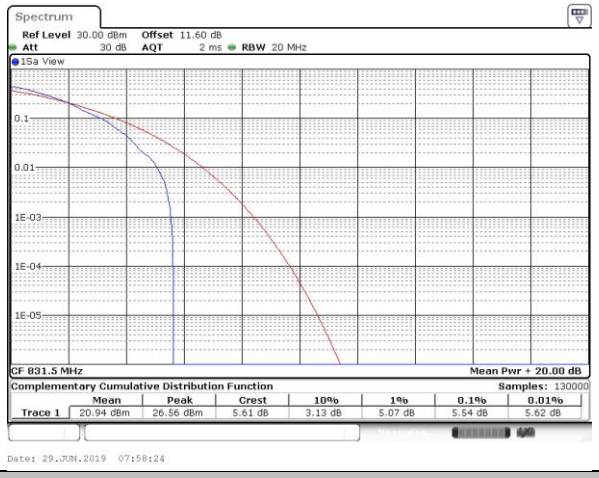
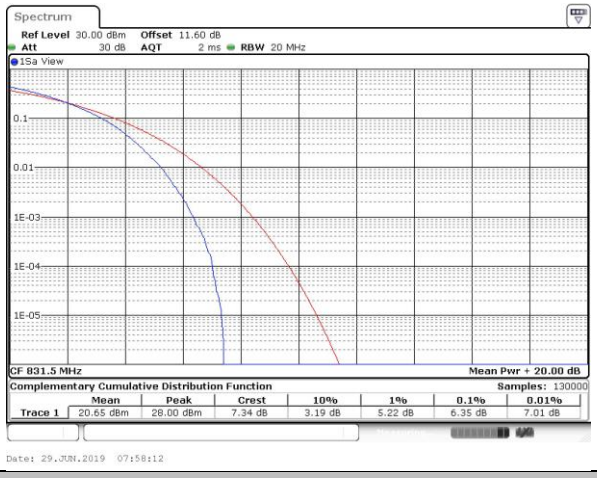
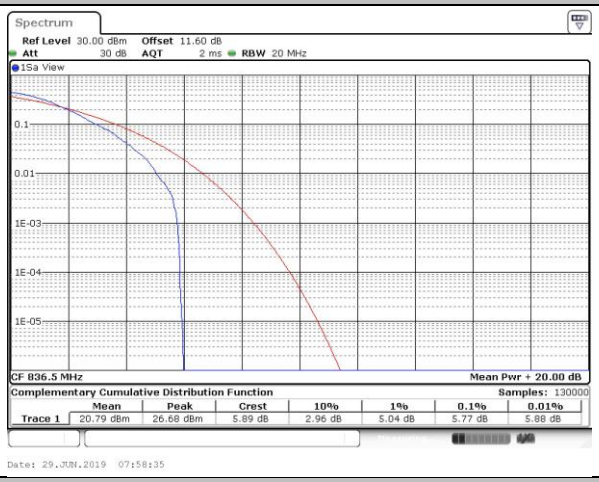
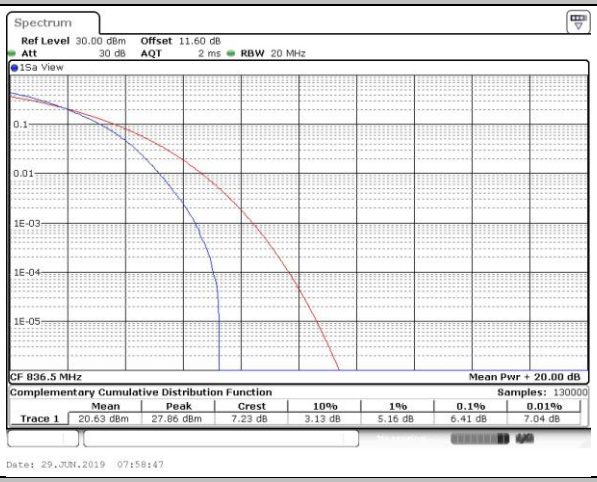
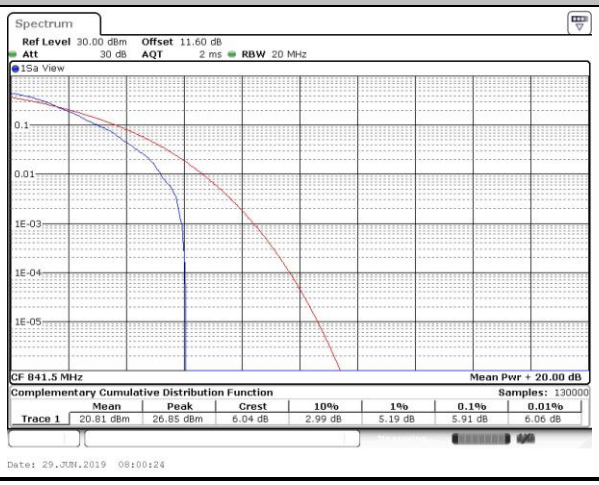
LTE Band 26_Part 22H

Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.52	4.75	5.65	PASS
Middle CH	3.19	4.72	4.23	5.77	
Highest CH	3.33	4.75	4.38	5.94	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	6.35	-	-	PASS
Middle CH	5.77	6.41	-	-	
Highest CH	5.91	6.58	-	-	

LTE Band 26 / 15MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 26 / 15MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

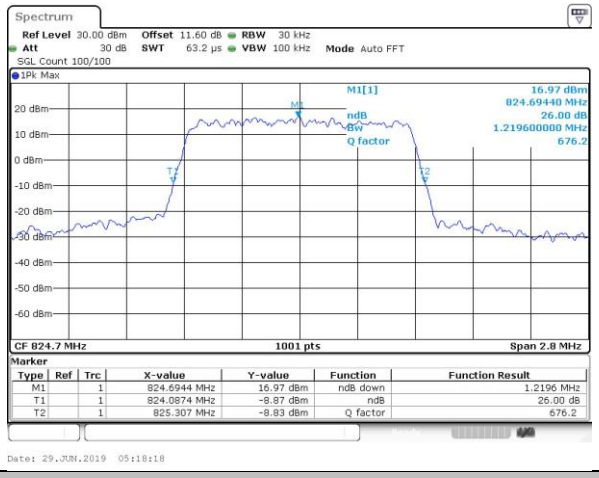
LTE Band 26 / 15MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

26dB Bandwidth

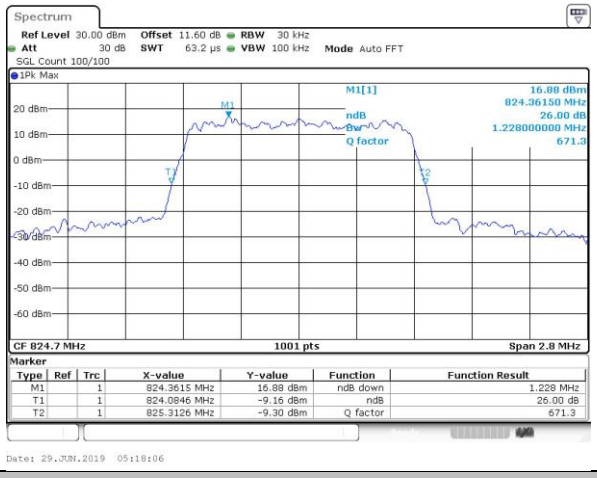
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.22	1.23	3.00	3.03	4.95	4.89	9.83	9.91	14.60	14.42	-	-
Middle CH	1.21	1.24	3.05	3.02	4.90	4.89	9.69	9.91	14.36	14.48	-	-
Highest CH	1.24	1.22	3.03	3.03	4.91	5.00	9.83	9.81	14.42	14.39	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.03	-	4.89	-	9.75	-	14.42	-	-	-
Middle CH	1.23	-	3.02	-	4.91	-	9.79	-	14.57	-	-	-
Highest CH	1.23	-	2.98	-	4.85	-	9.75	-	14.36	-	-	-

LTE Band 26

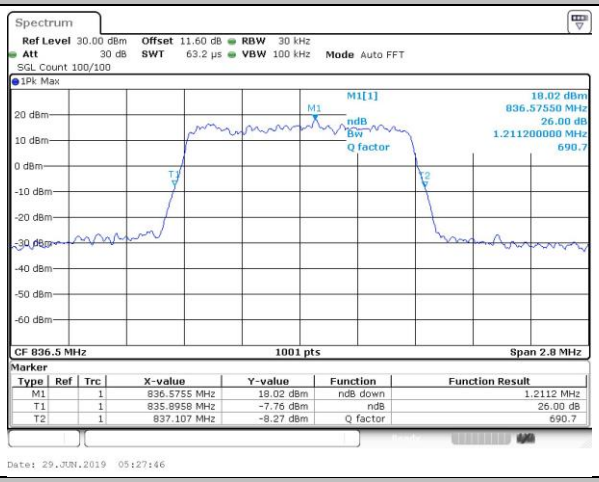
Lowest Channel / 1.4MHz / QPSK



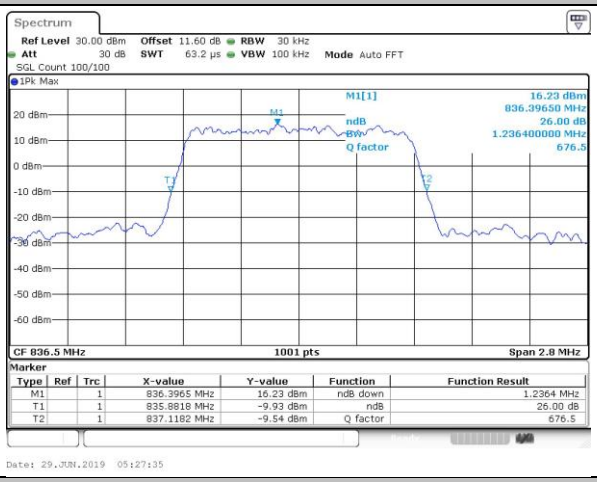
Lowest Channel / 1.4MHz / 16QAM



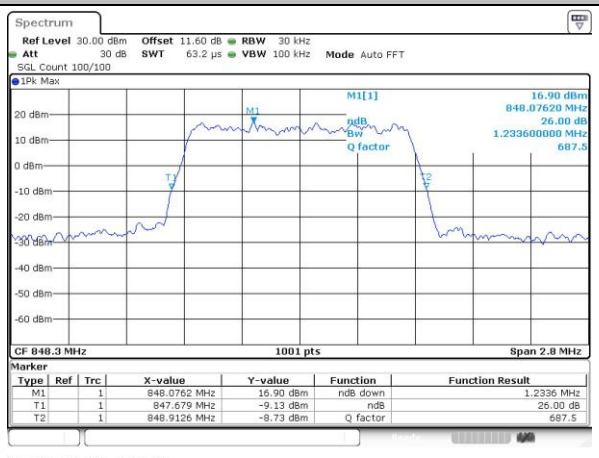
Middle Channel / 1.4MHz / QPSK



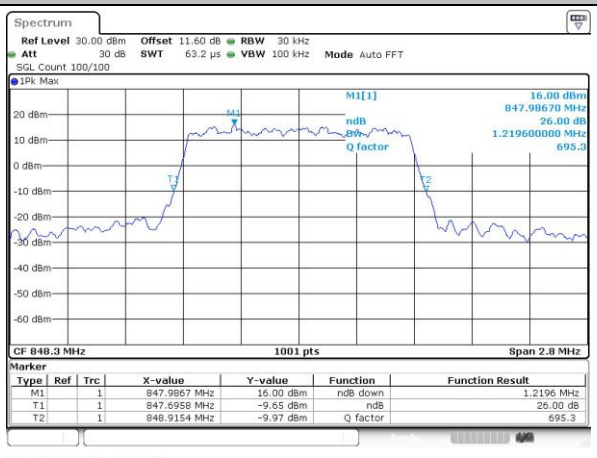
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

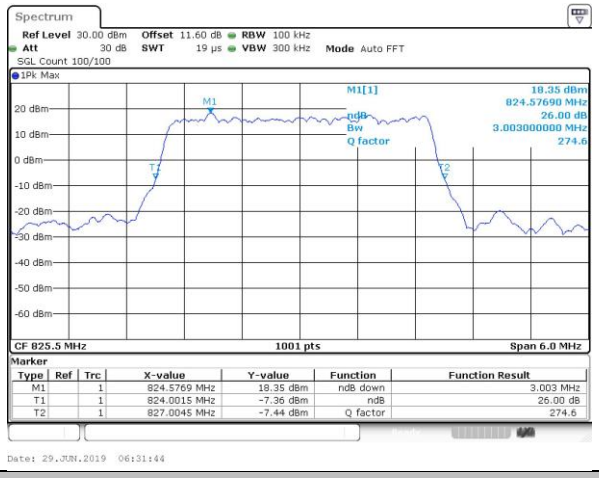


Highest Channel / 1.4MHz / 16QAM

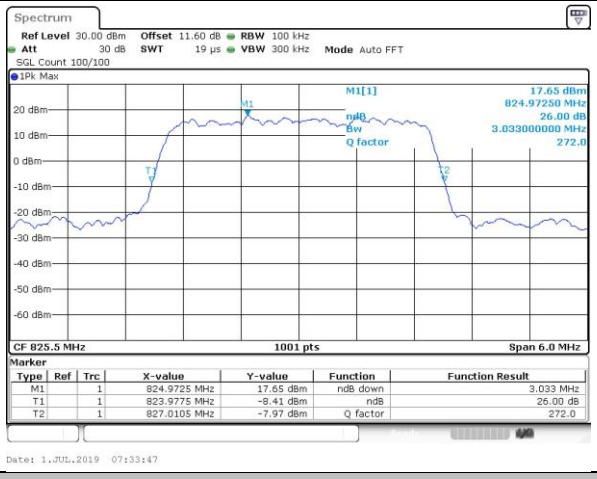


LTE Band 26

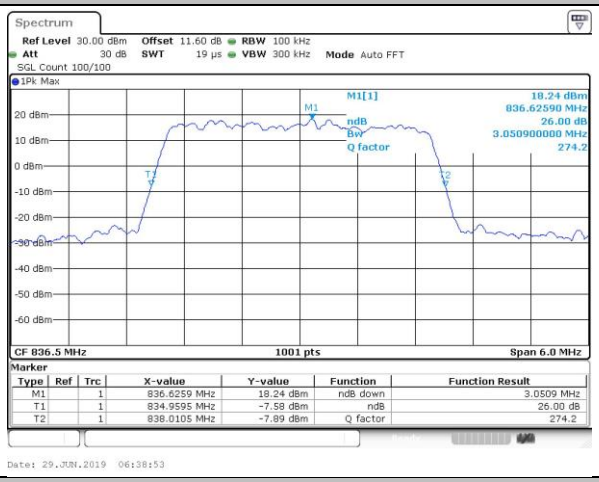
Lowest Channel / 3MHz / QPSK



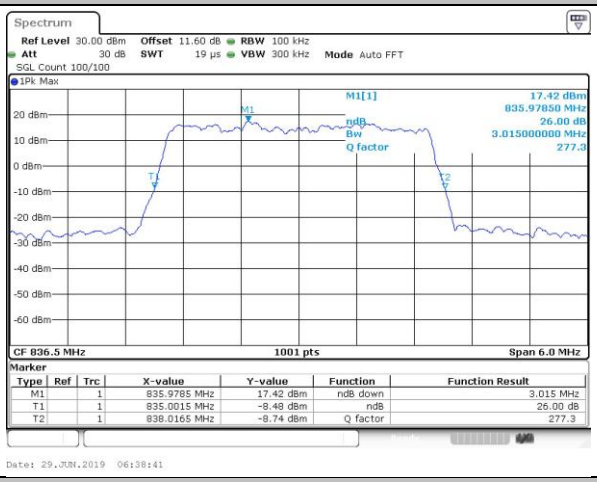
Lowest Channel / 3MHz / 16QAM



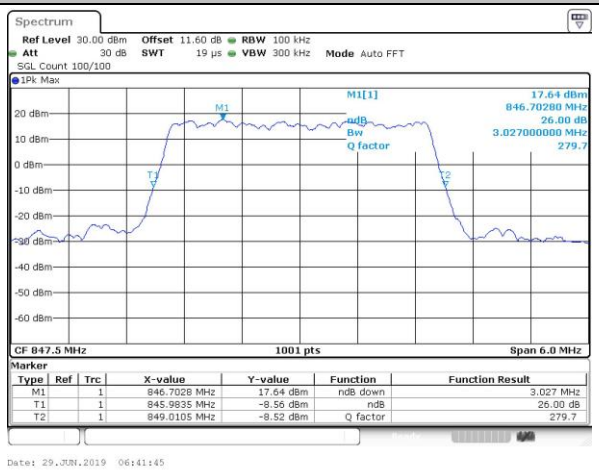
Middle Channel / 3MHz / QPSK



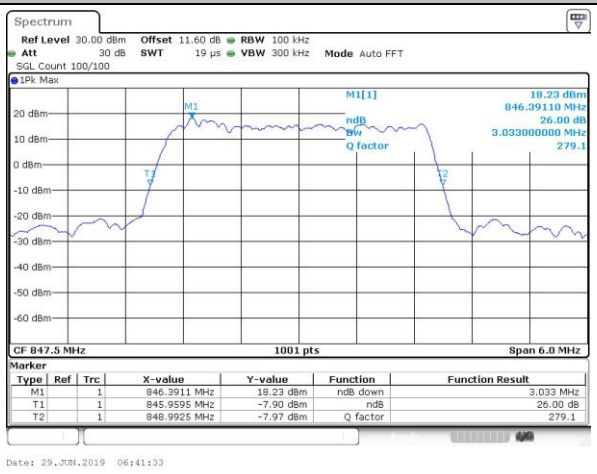
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

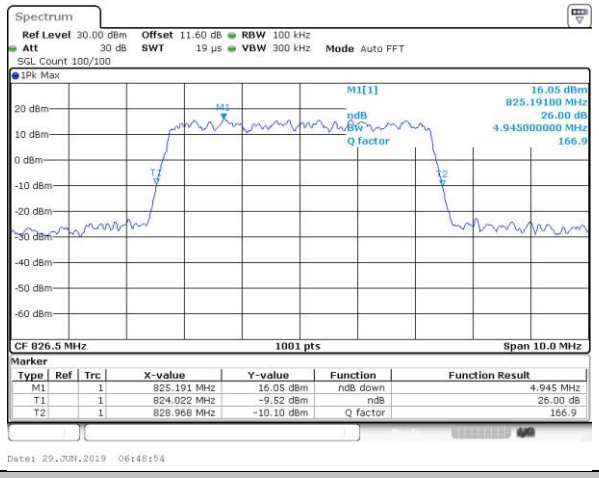


Highest Channel / 3MHz / 16QAM

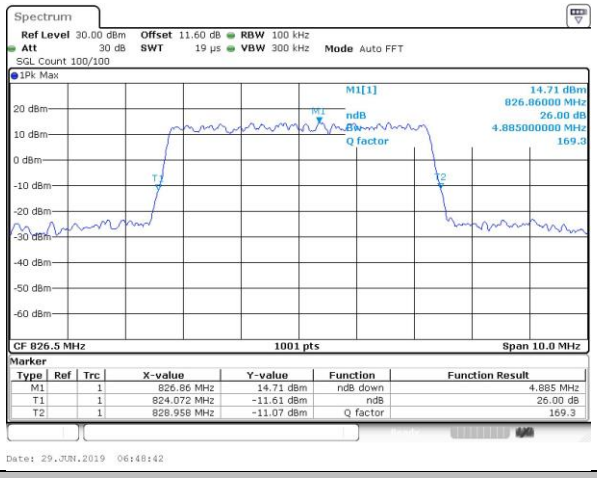


LTE Band 26

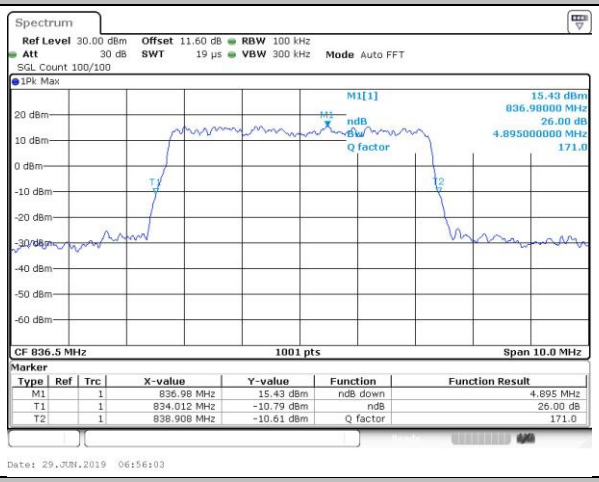
Lowest Channel / 5MHz / QPSK



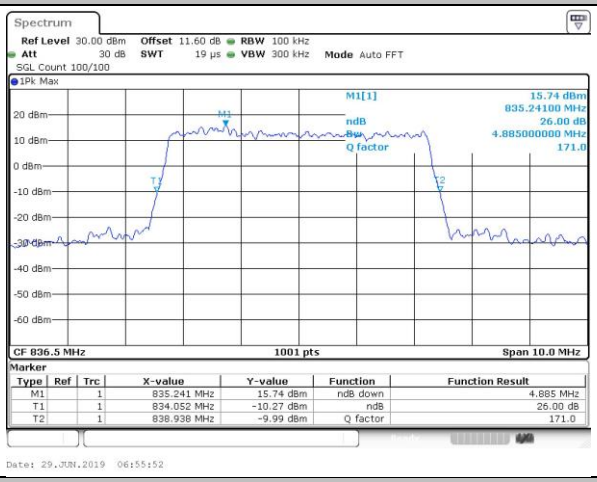
Lowest Channel / 5MHz / 16QAM



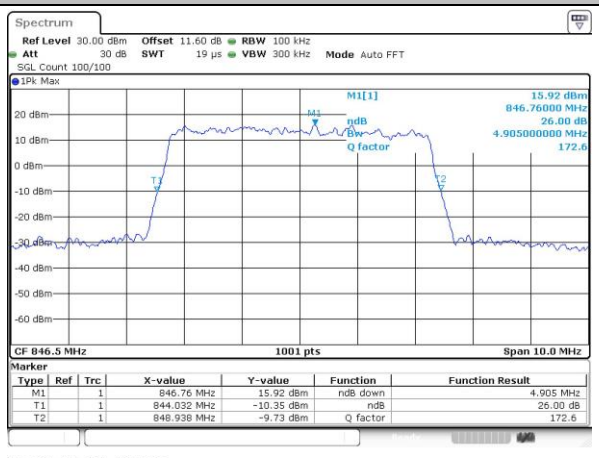
Middle Channel / 5MHz / QPSK



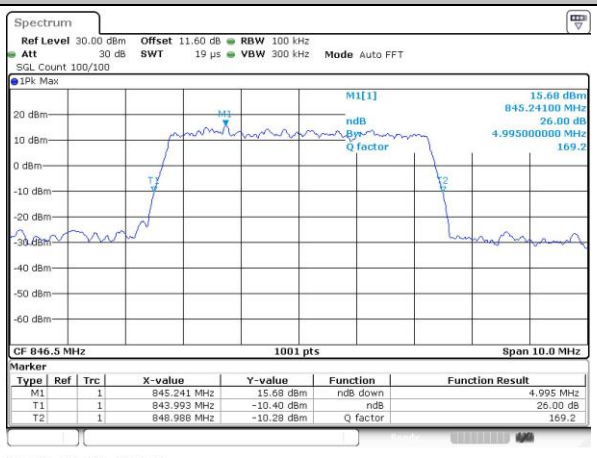
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

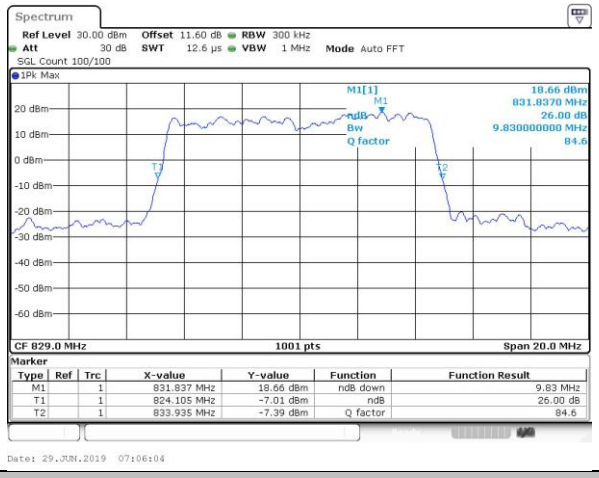


Highest Channel / 5MHz / 16QAM

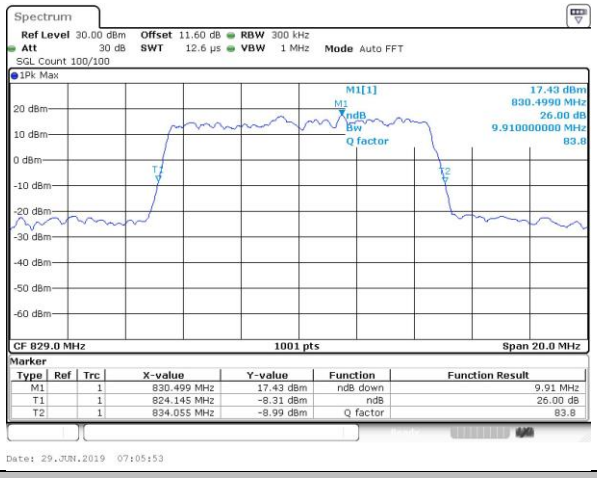


LTE Band 26

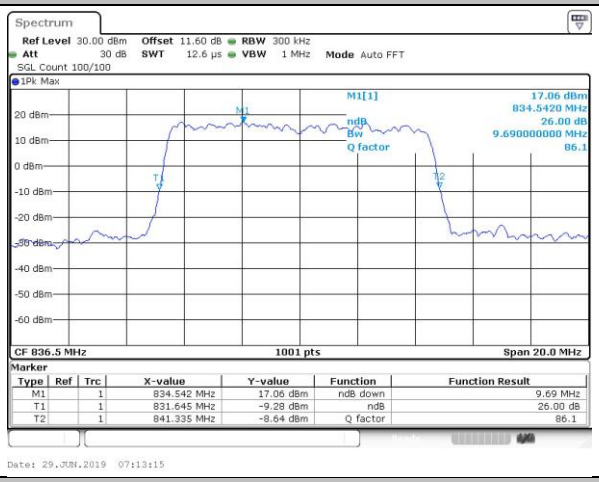
Lowest Channel / 10MHz / QPSK



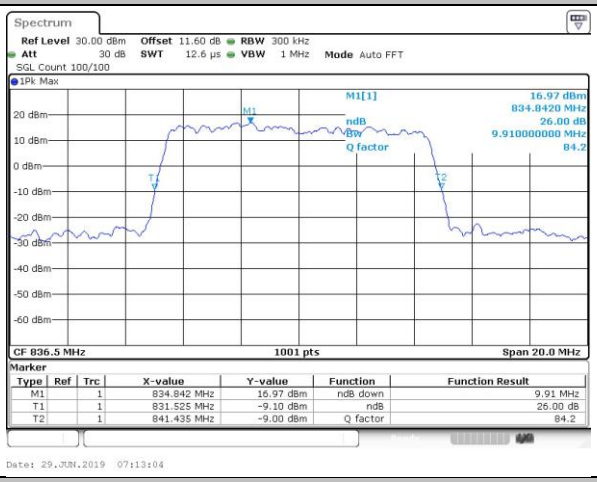
Lowest Channel / 10MHz / 16QAM



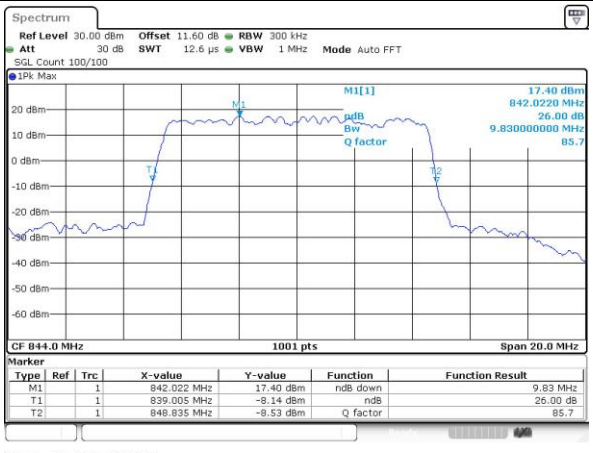
Middle Channel / 10MHz / QPSK



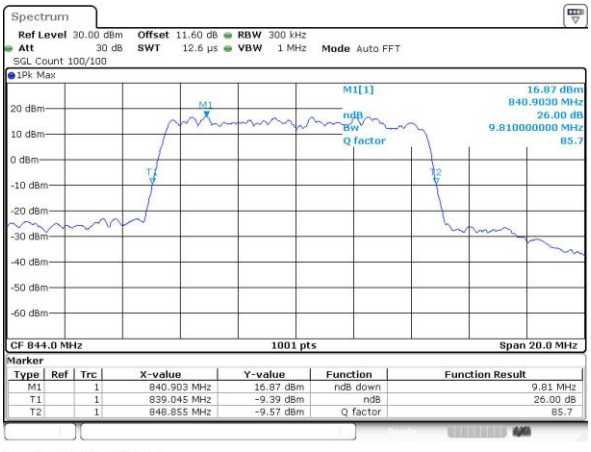
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

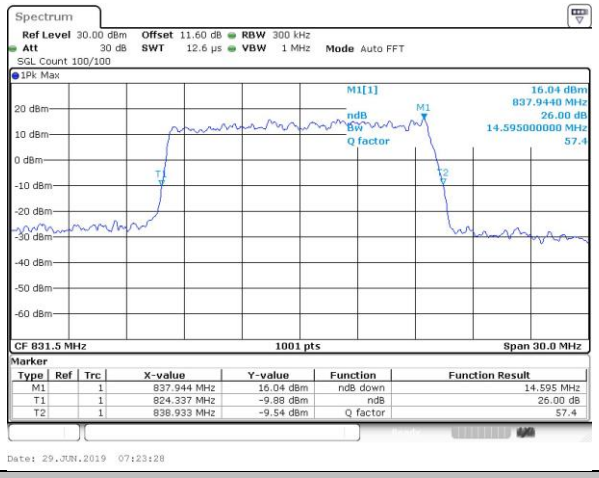


Highest Channel / 10MHz / 16QAM

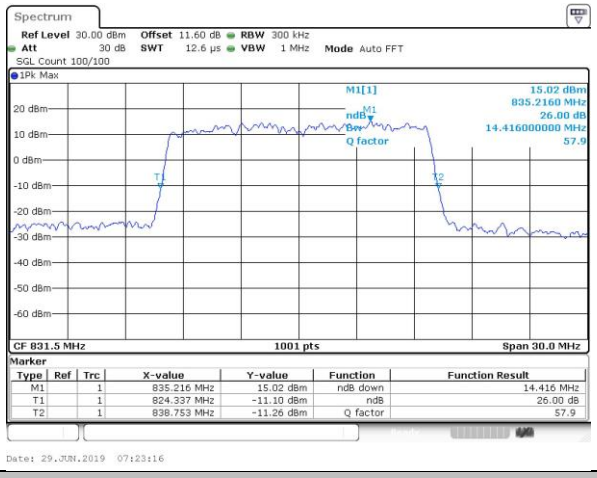


LTE Band 26

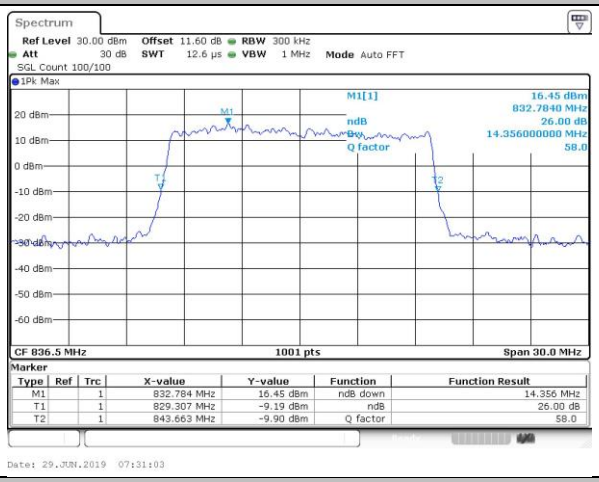
Lowest Channel / 15MHz / QPSK



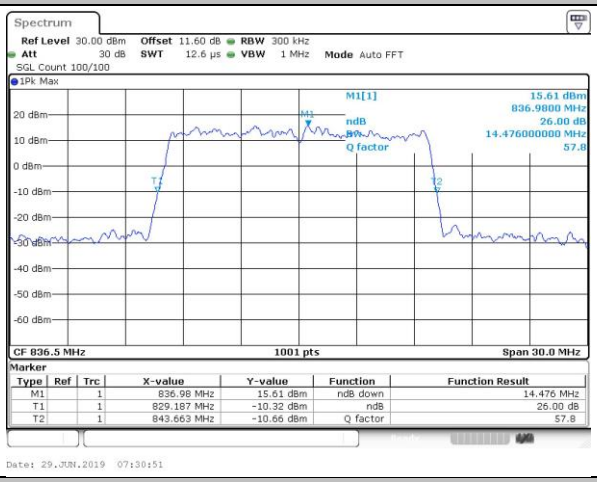
Lowest Channel / 15MHz / 16QAM



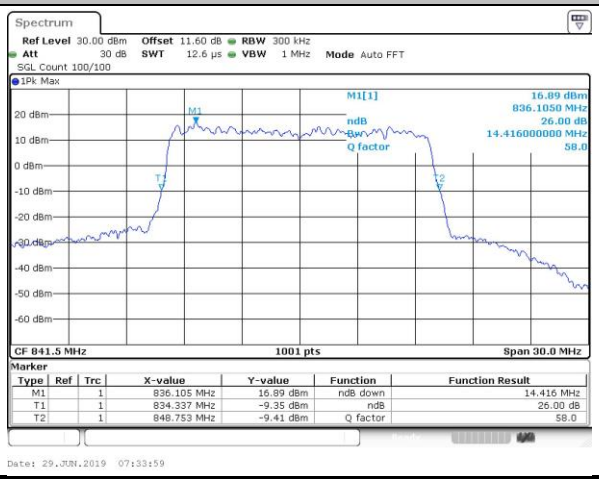
Middle Channel / 15MHz / QPSK



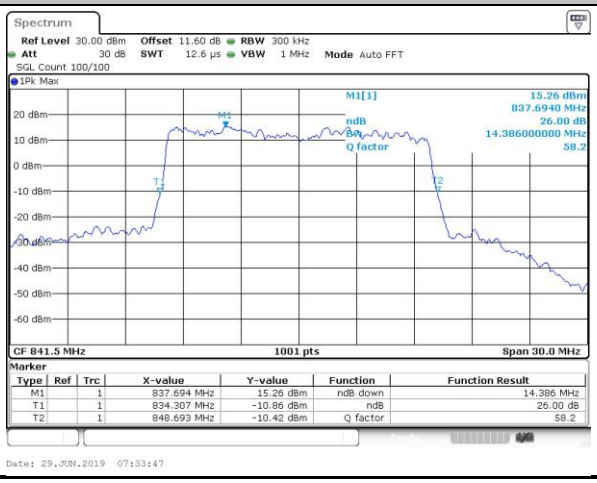
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

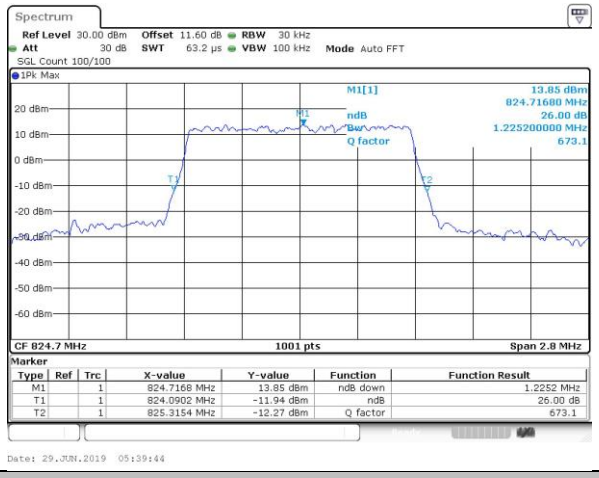


Highest Channel / 15MHz / 16QAM

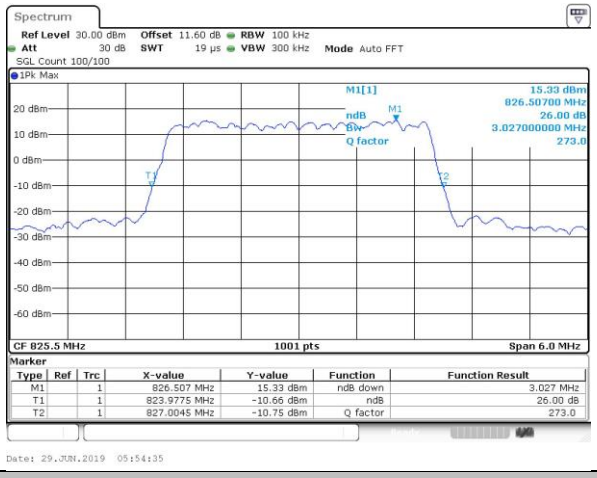


LTE Band 26

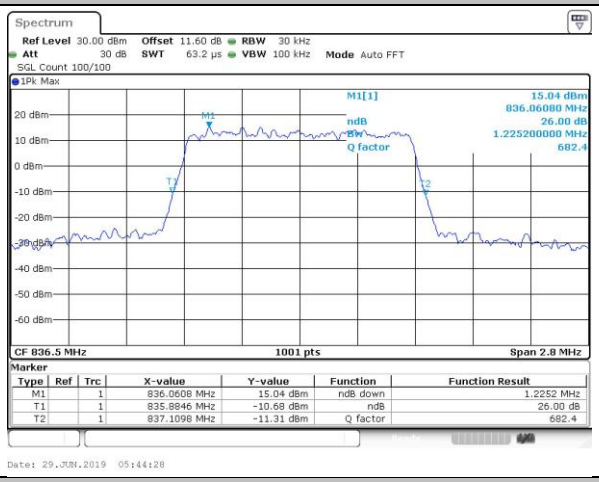
Lowest Channel / 1.4MHz / 64QAM



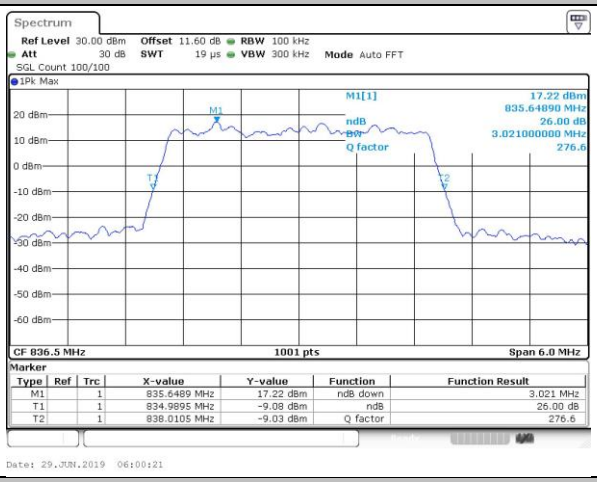
Lowest Channel / 3MHz / 64QAM



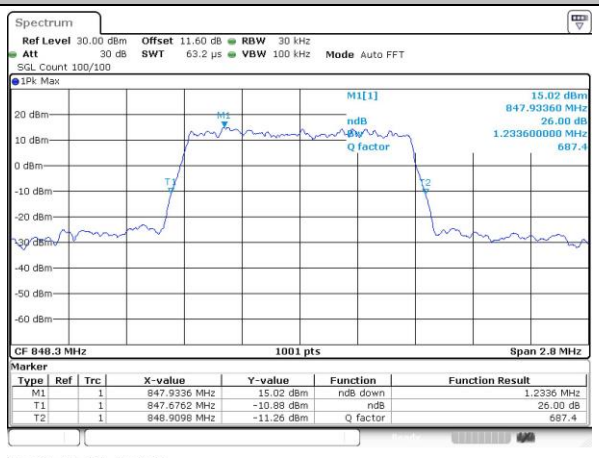
Middle Channel / 1.4MHz / 64QAM



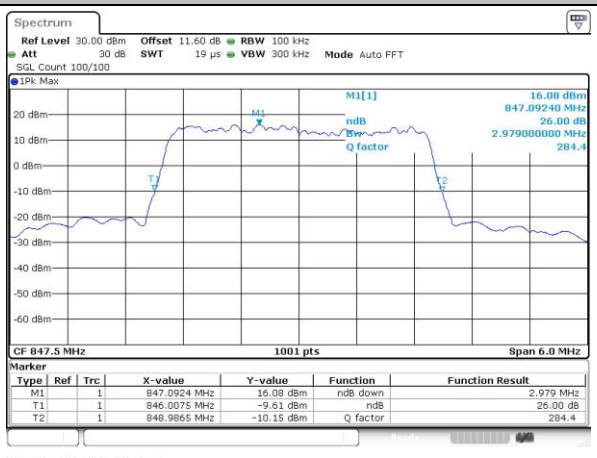
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

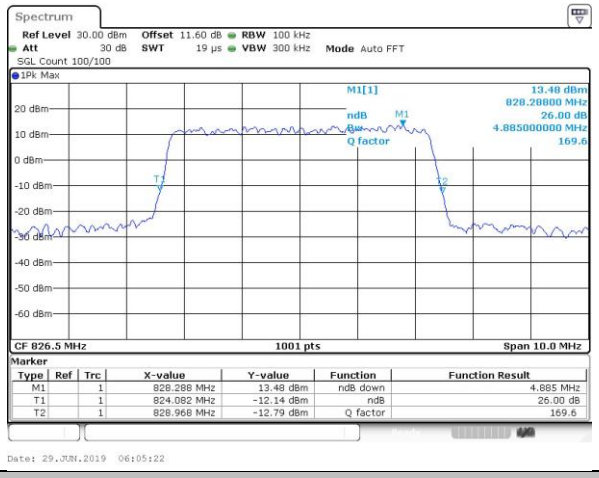


Highest Channel / 3MHz / 64QAM

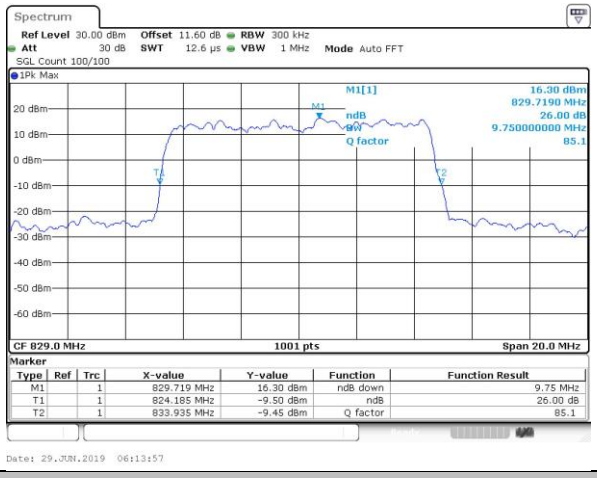


LTE Band 26

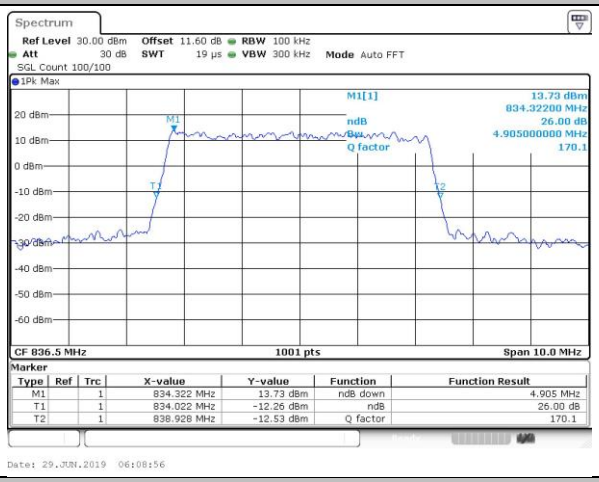
Lowest Channel / 5MHz / 64QAM



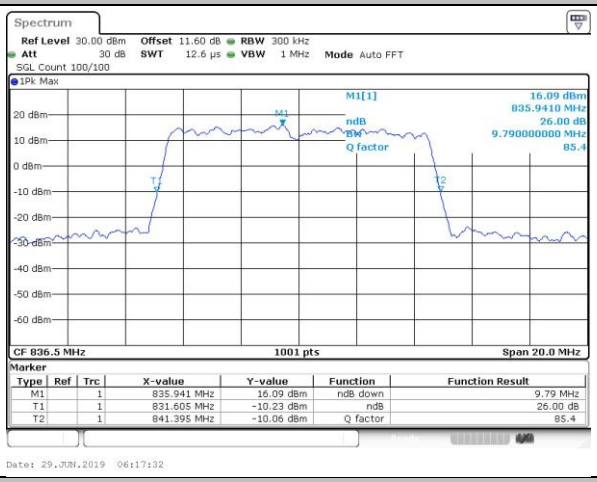
Lowest Channel / 10MHz / 64QAM



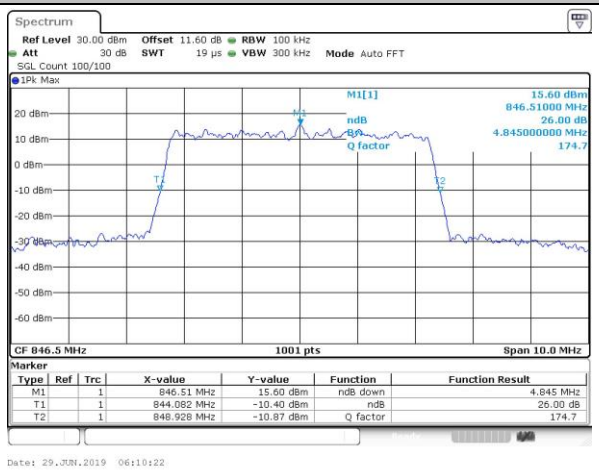
Middle Channel / 5MHz / 64QAM



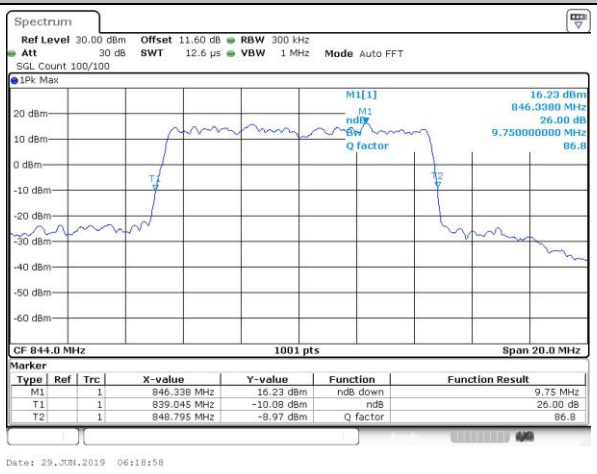
Middle Channel / 10MHz / 64QAM

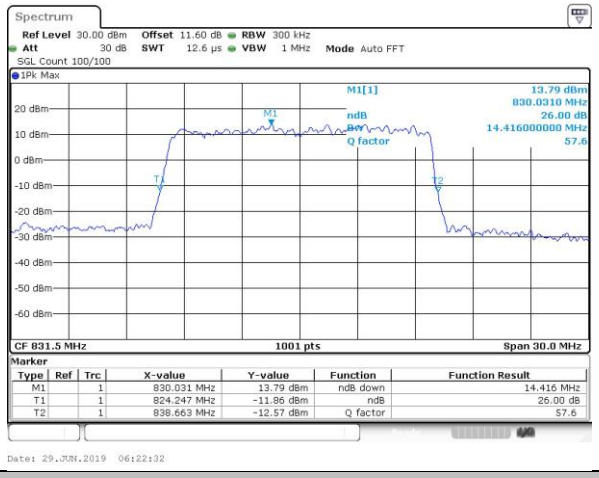
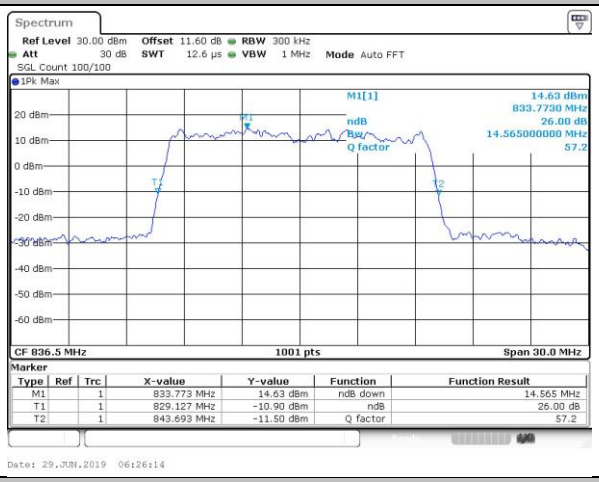
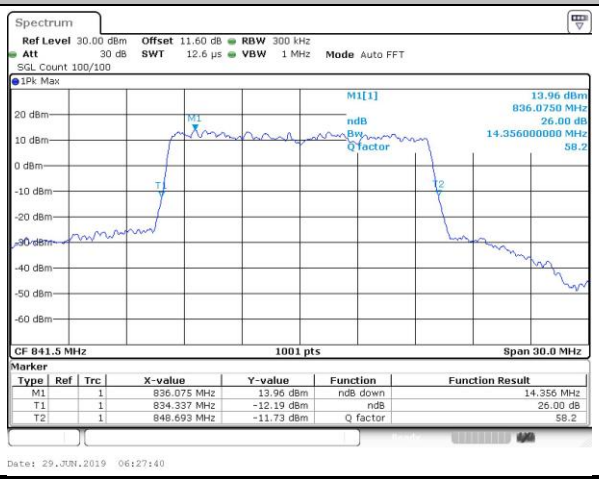


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM



LTE Band 26	
Lowest Channel / 15MHz / 64QAM	
	
Middle Channel / 15MHz / 64QAM	
	
Highest Channel / 15MHz / 64QAM	
	

Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.70	2.70	4.49	4.50	9.01	9.05	13.40	13.37	-	-
Middle CH	1.08	1.09	2.72	2.72	4.51	4.49	9.01	8.95	13.43	13.37	-	-
Highest CH	1.09	1.09	2.72	2.73	4.50	4.50	8.99	9.03	13.37	13.40	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.49	-	9.07	-	13.40	-	-	-
Middle CH	1.09	-	2.73	-	4.48	-	9.01	-	13.34	-	-	-
Highest CH	1.09	-	2.73	-	4.52	-	9.01	-	13.40	-	-	-