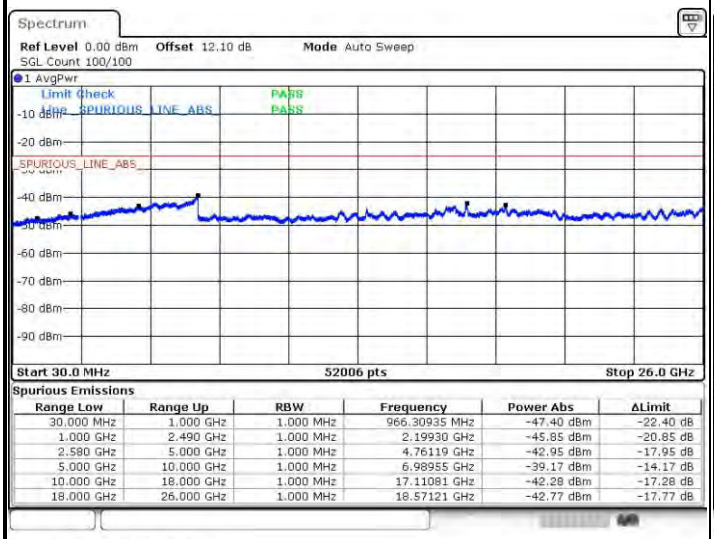
LTE Band 7 / 20MHz

Middle Channel / QPSK

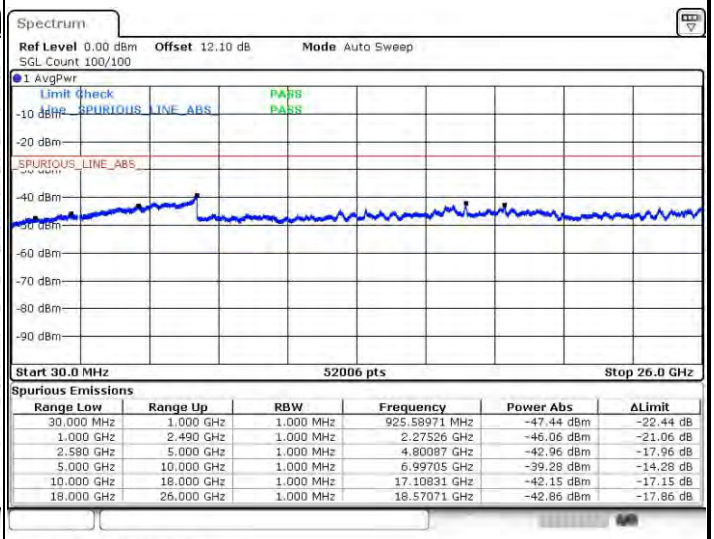


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.30935 MHz	-47.40 dBm	-22.40 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.19930 GHz	-45.85 dBm	-20.85 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.76119 GHz	-42.95 dBm	-17.95 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.98955 GHz	-39.17 dBm	-14.17 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.11081 GHz	-42.28 dBm	-17.28 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.57121 GHz	-42.77 dBm	-17.77 dB

Date: 15.MAY.2016 12:09:18

Middle Channel / 16QAM

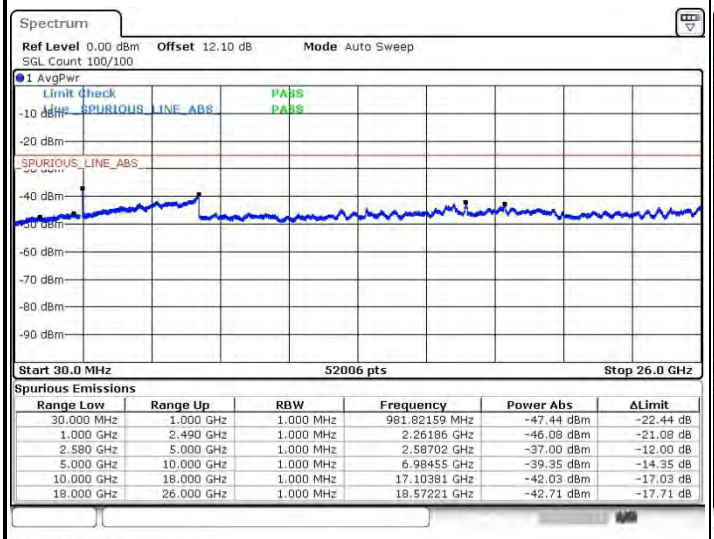


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.58971 MHz	-47.44 dBm	-22.44 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.27526 GHz	-46.06 dBm	-21.06 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.80087 GHz	-42.96 dBm	-17.96 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99705 GHz	-39.28 dBm	-14.28 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.10831 GHz	-42.15 dBm	-17.15 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.57071 GHz	-42.86 dBm	-17.86 dB

Date: 15.MAY.2016 12:10:16

Highest Channel / QPSK

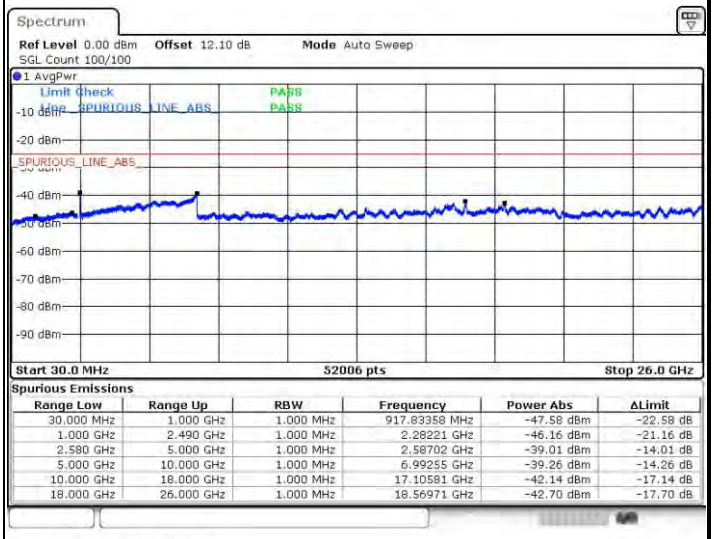


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.82159 MHz	-47.44 dBm	-22.44 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.26186 GHz	-46.08 dBm	-21.08 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58702 GHz	-37.00 dBm	-12.00 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.98455 GHz	-39.35 dBm	-14.35 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.10381 GHz	-42.03 dBm	-17.03 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.57221 GHz	-42.71 dBm	-17.71 dB

Date: 15.MAY.2016 12:16:40

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	917.83358 MHz	-47.58 dBm	-22.58 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.28221 GHz	-46.16 dBm	-21.16 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58702 GHz	-39.01 dBm	-14.01 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99255 GHz	-39.26 dBm	-14.26 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.10581 GHz	-42.14 dBm	-17.14 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.56971 GHz	-42.70 dBm	-17.70 dB

Date: 15.MAY.2016 12:17:39

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0097	
-10	Normal Voltage	0.0090	
-20	Normal Voltage	0.0095	
-30	Normal Voltage	0.0093	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0093	

Note:

1. Normal Voltage = 4.0V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

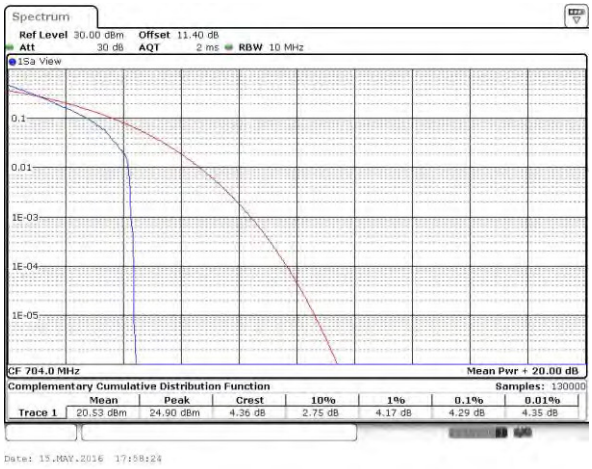
LTE Band 12

Peak-to-Average Ratio

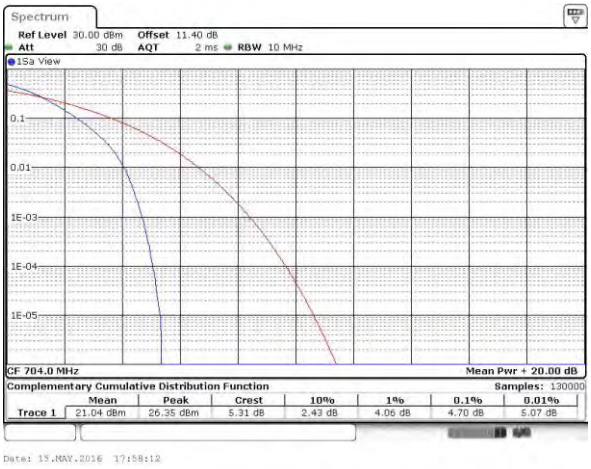
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.29	4.70	5.65	5.68	PASS
Middle CH	3.88	5.01	5.28	5.86	
Highest CH	4.41	4.75	5.10	5.80	

LTE Band 12 / 10MHz / QPSK

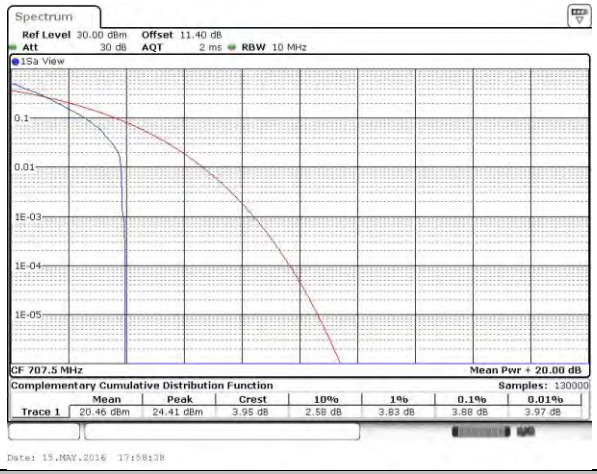
Lowest Channel / 1RB



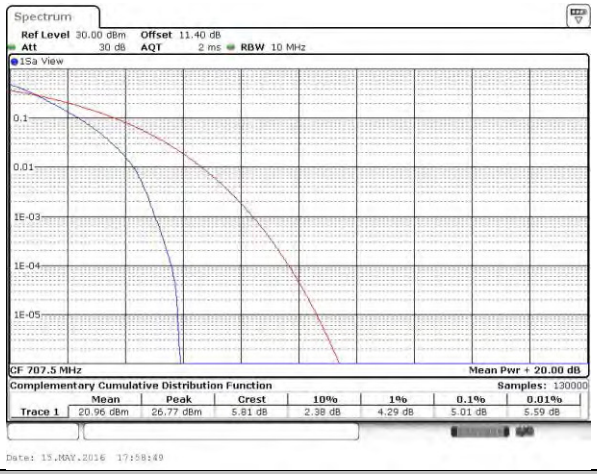
Lowest Channel / Full RB



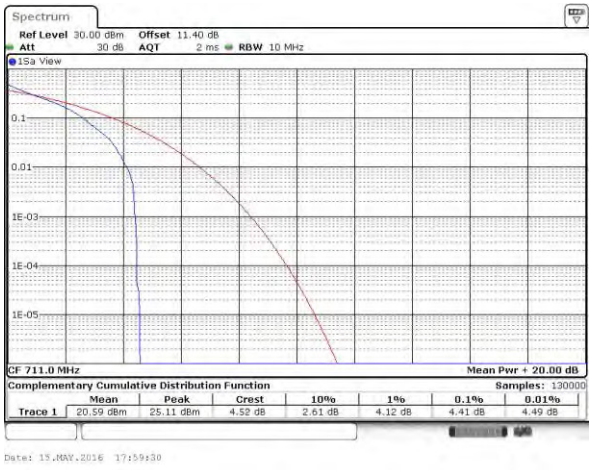
Middle Channel / 1RB



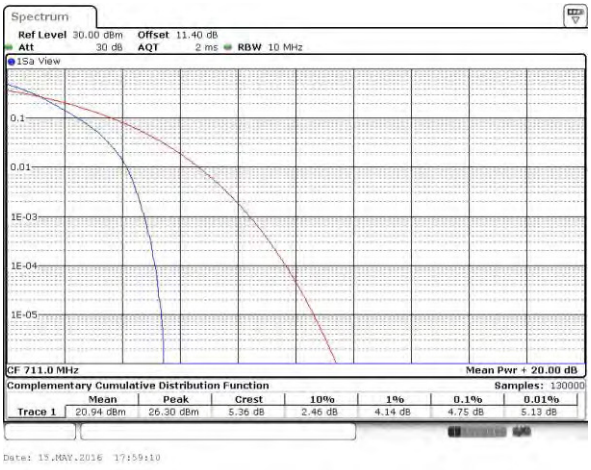
Middle Channel / Full RB



Highest Channel / 1RB



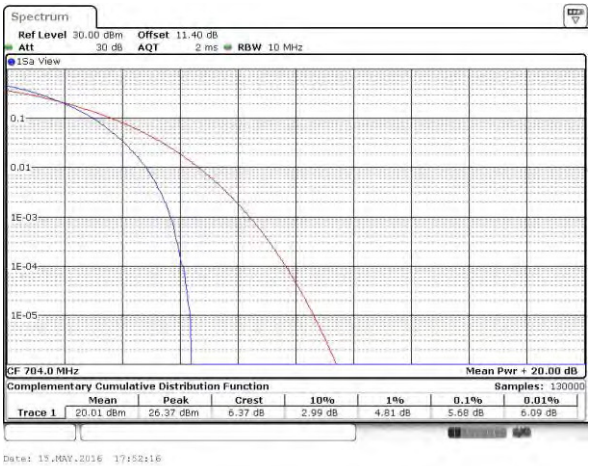
Highest Channel / Full RB



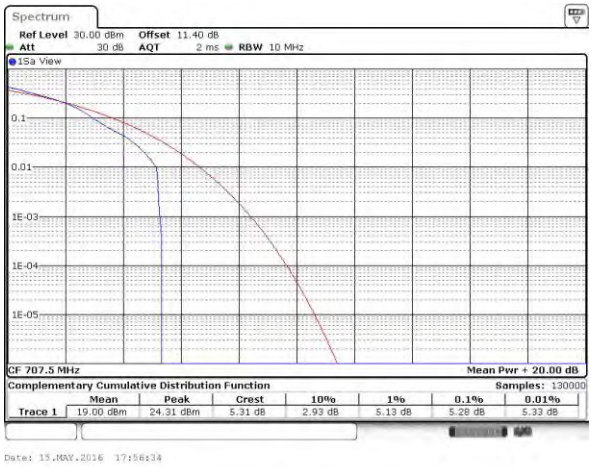
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB

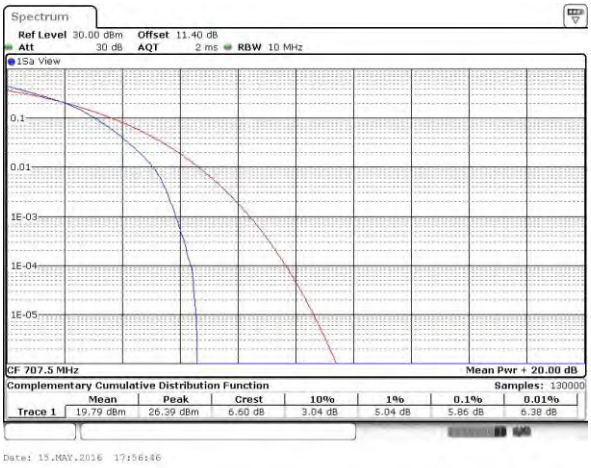
Lowest Channel / Full RB



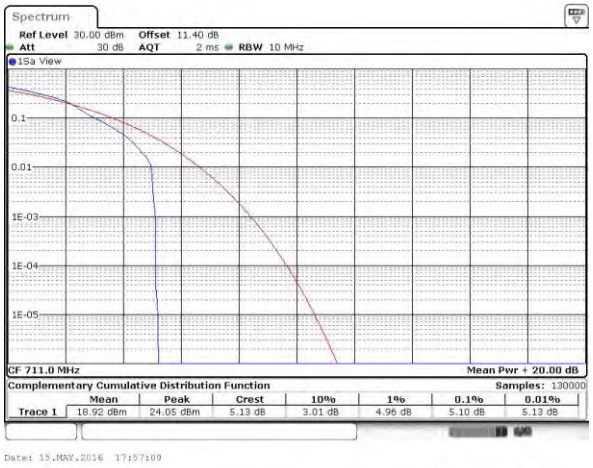
Middle Channel / 1RB



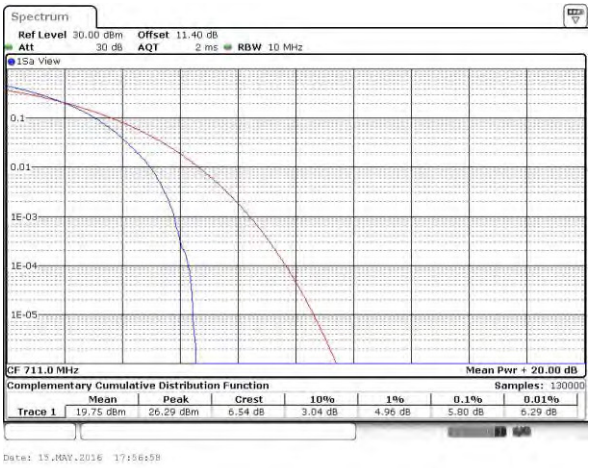
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

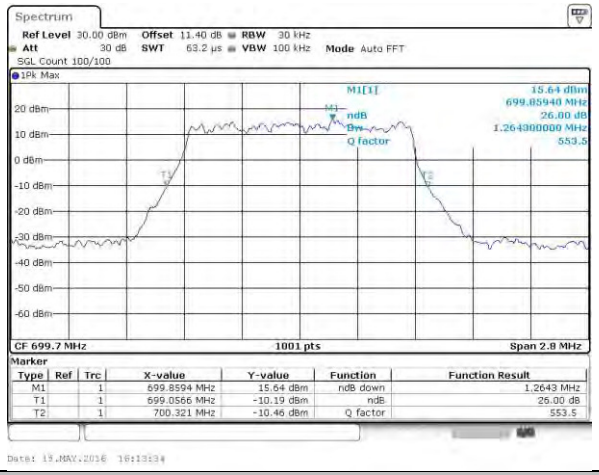


26dB Bandwidth

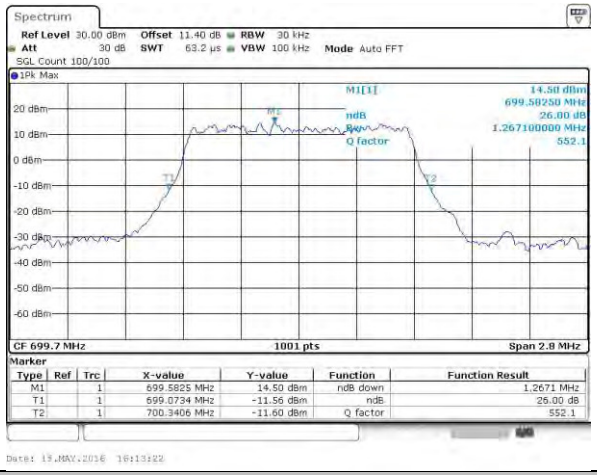
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.26	1.27	3.02	3.03	4.95	4.85	9.77	9.63	-	-	-	-
Middle CH	1.26	1.26	3.02	2.99	4.90	4.90	9.91	9.79	-	-	-	-
Highest CH	1.25	1.23	3.05	3.02	4.97	4.94	9.73	9.83	-	-	-	-

LTE Band 12

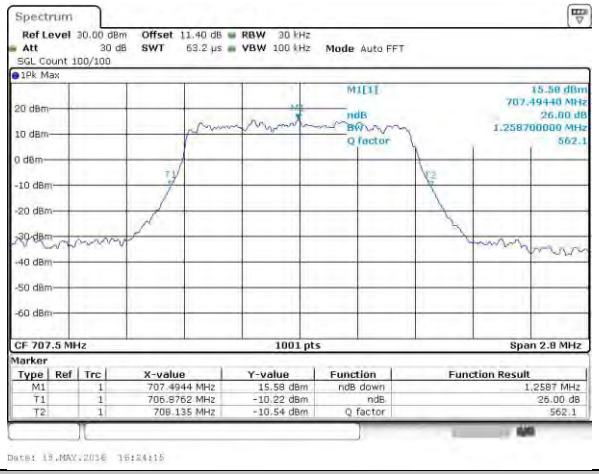
Lowest Channel / 1.4MHz / QPSK



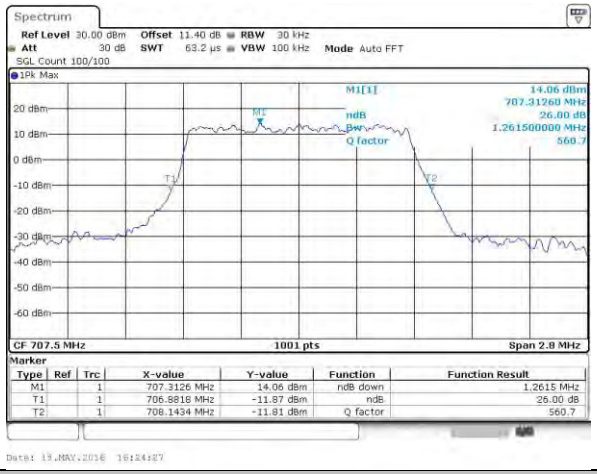
Lowest Channel / 1.4MHz / 16QAM



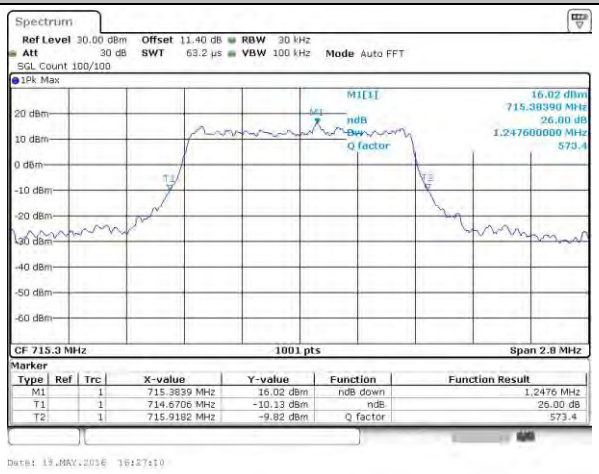
Middle Channel / 1.4MHz / QPSK



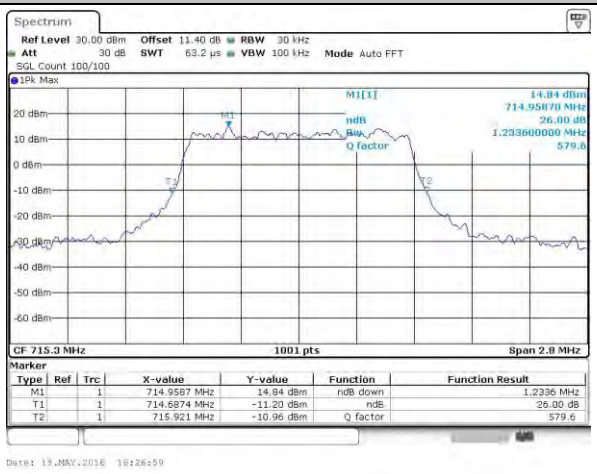
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

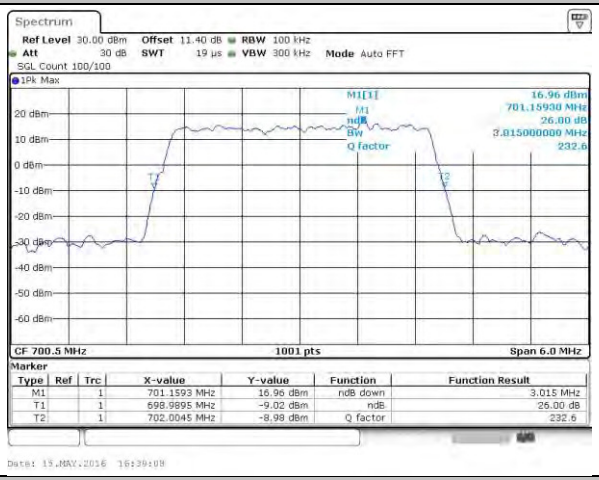


Highest Channel / 1.4MHz / 16QAM

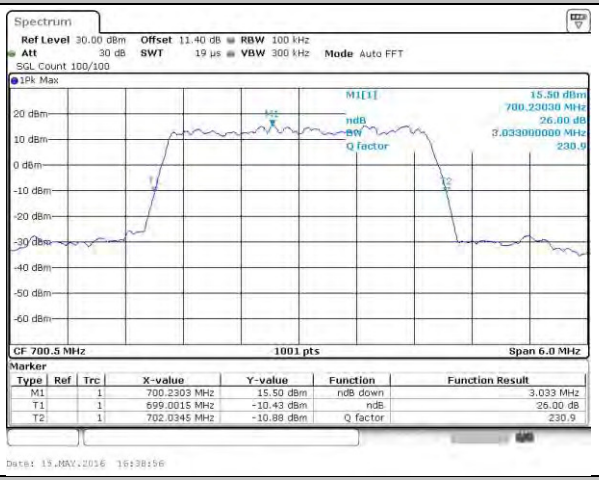


LTE Band 12

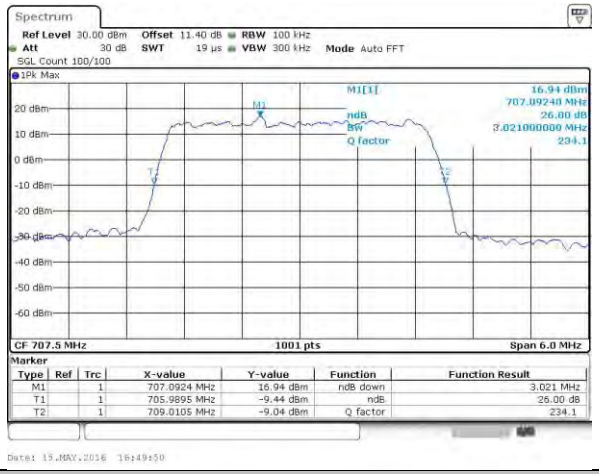
Lowest Channel / 3MHz / QPSK



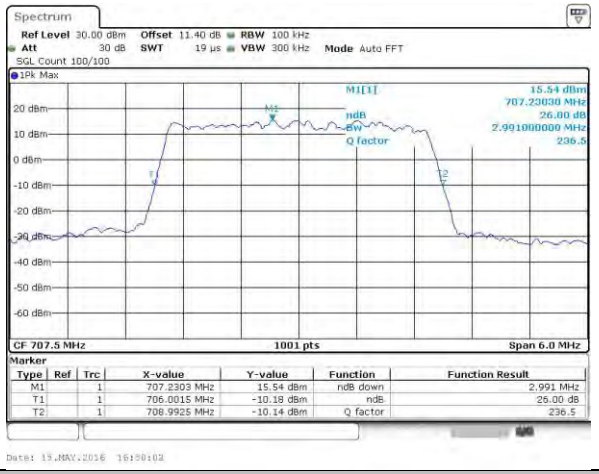
Lowest Channel / 3MHz / 16QAM



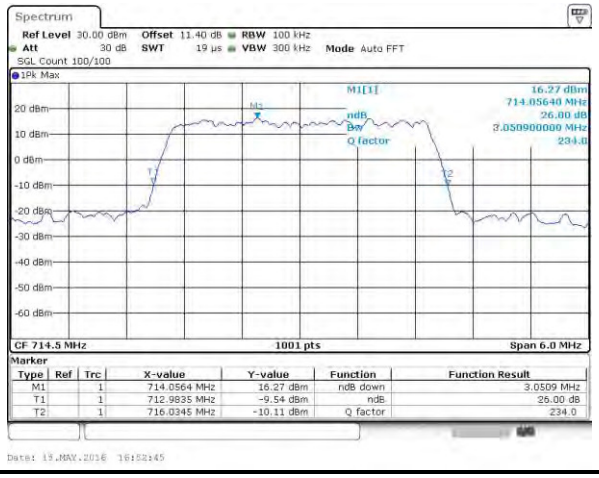
Middle Channel / 3MHz / QPSK



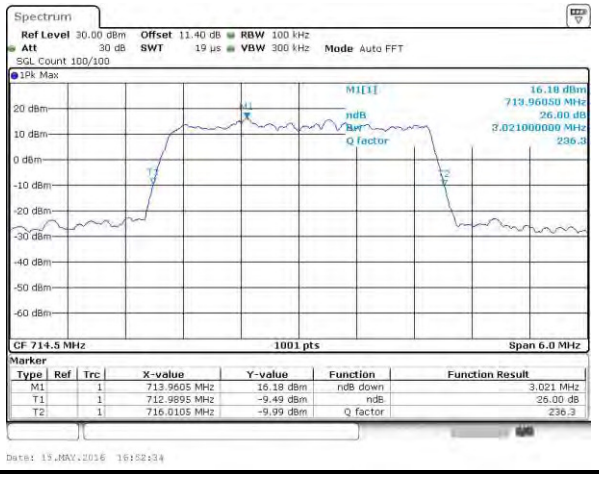
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

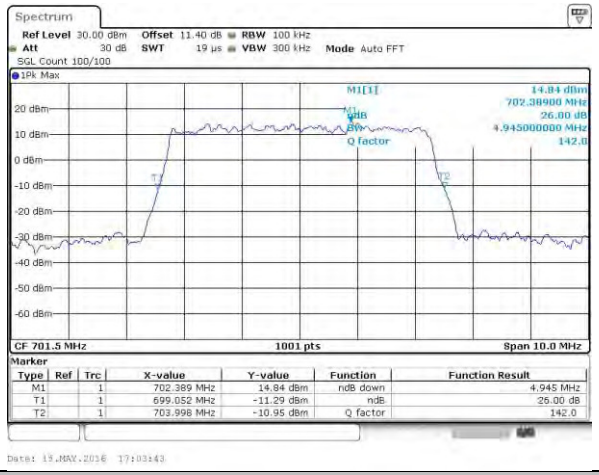


Highest Channel /3MHz / 16QAM

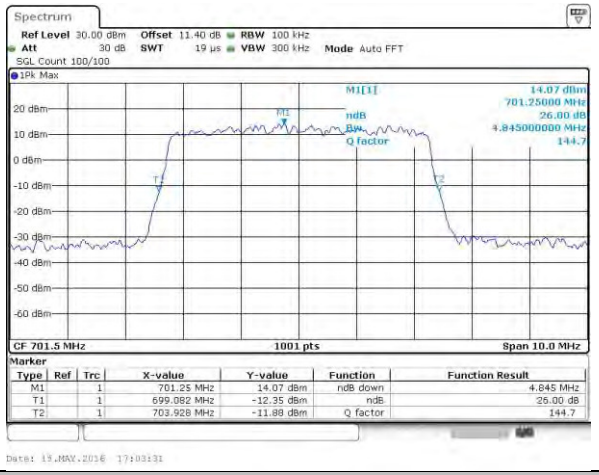


LTE Band 12

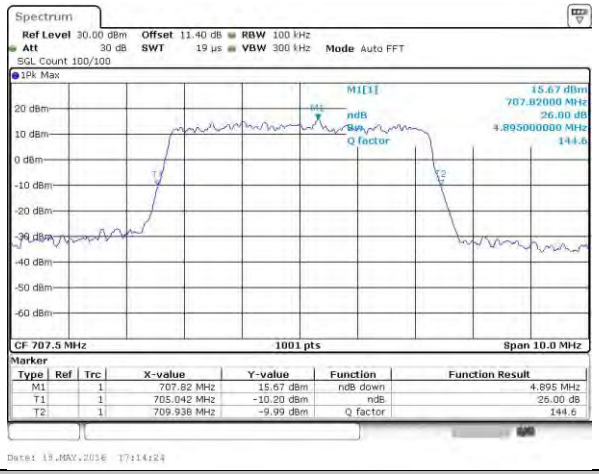
Lowest Channel / 5MHz / QPSK



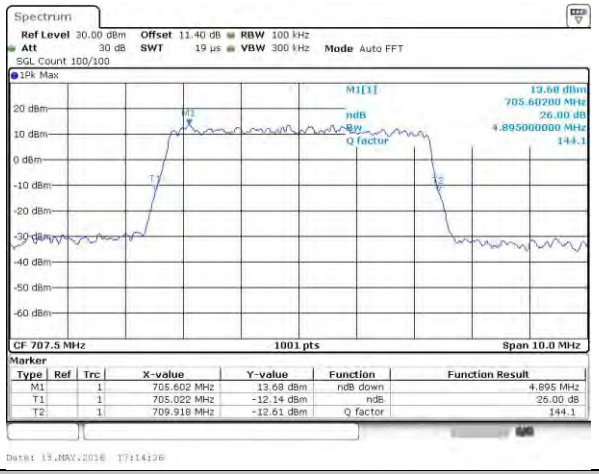
Lowest Channel / 5MHz / 16QAM



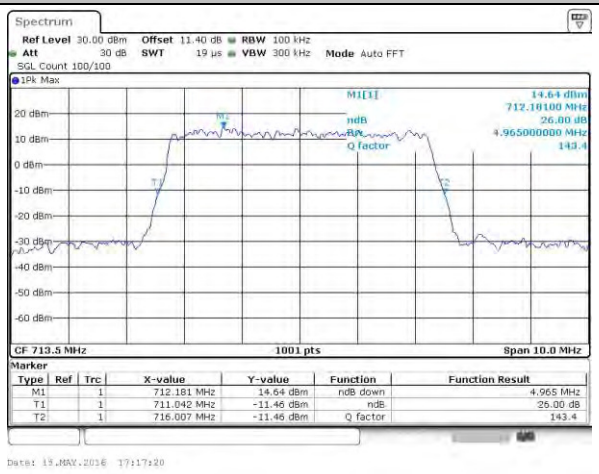
Middle Channel / 5MHz / QPSK



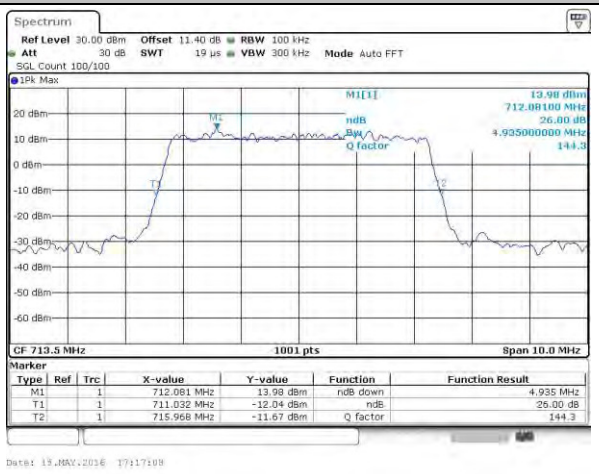
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

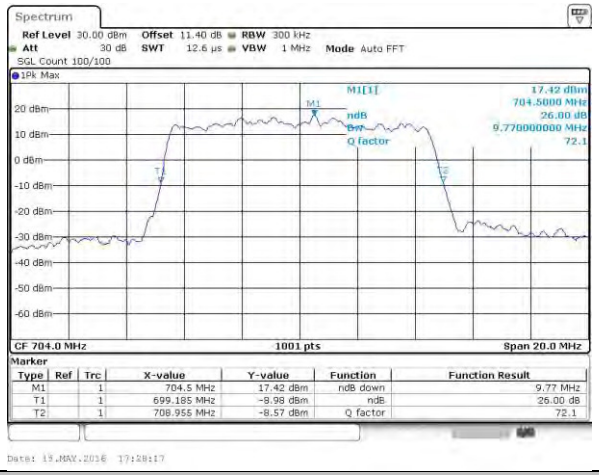


Highest Channel / 5MHz / 16QAM

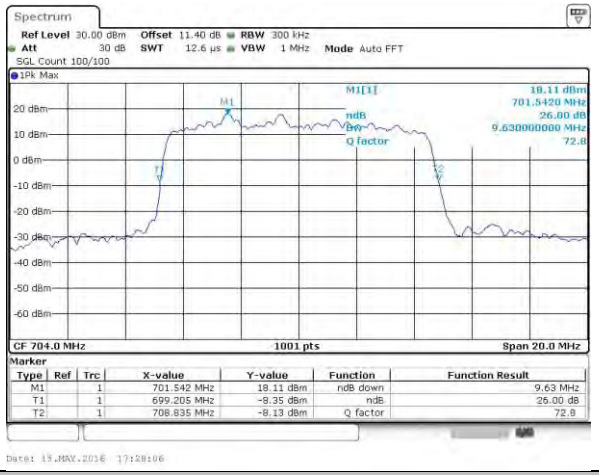


LTE Band 12

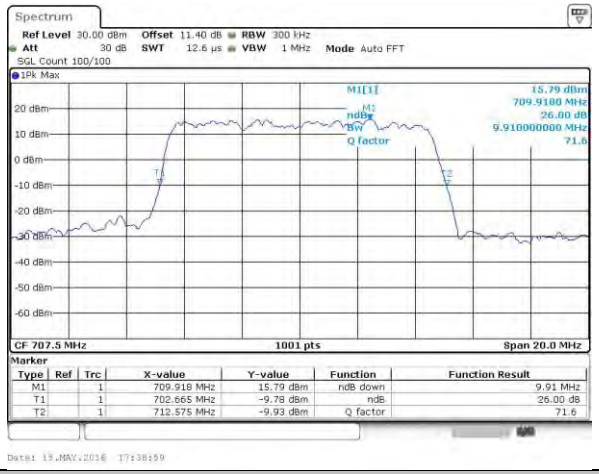
Lowest Channel / 10MHz / QPSK



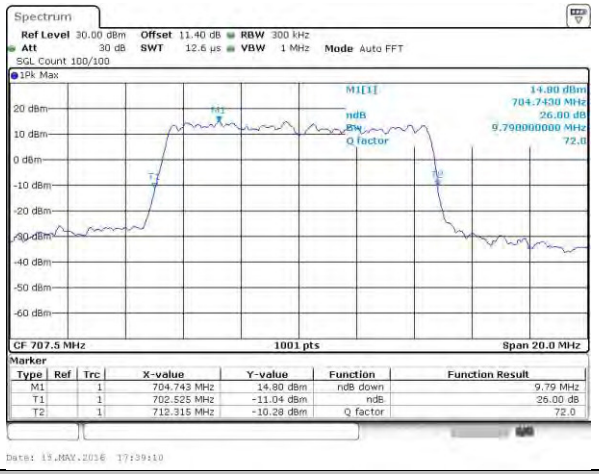
Lowest Channel / 10MHz / 16QAM



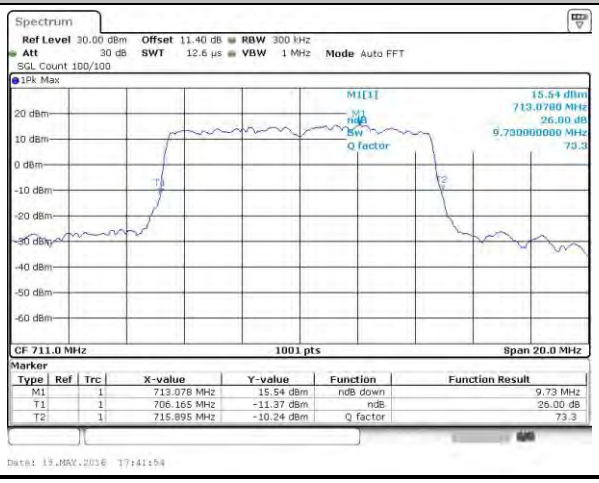
Middle Channel / 10MHz / QPSK



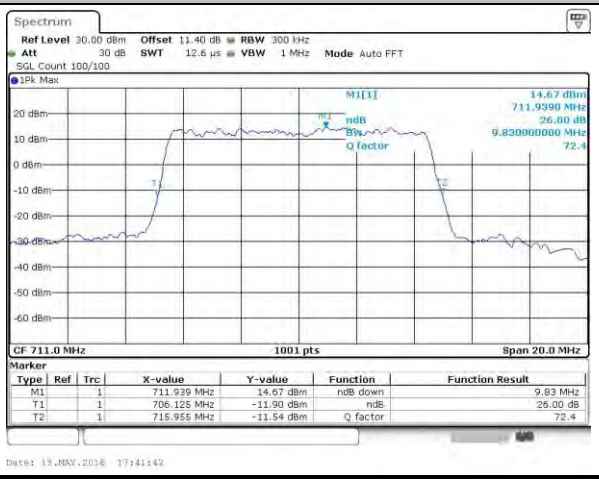
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

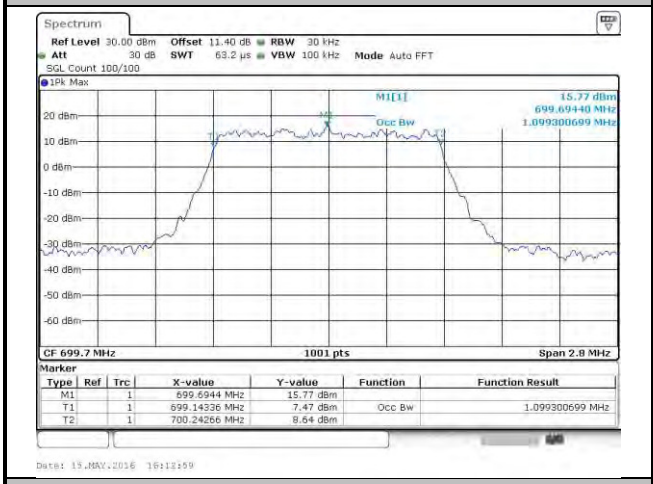


Occupied Bandwidth

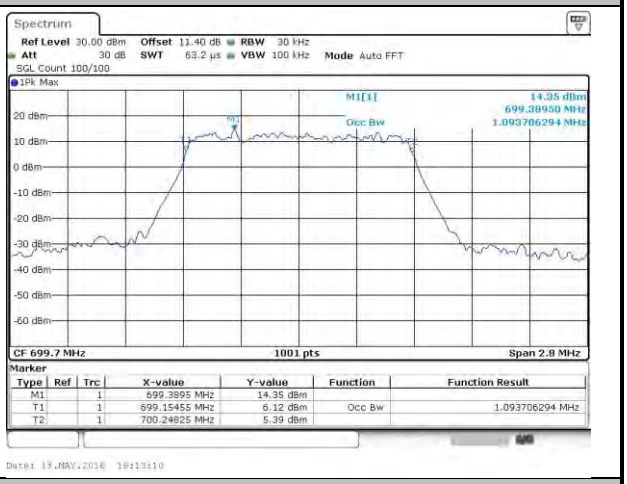
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.09	2.72	2.70	4.48	4.49	8.95	8.87	-	-	-	-
Middle CH	1.10	1.10	2.71	2.70	4.48	4.49	8.99	8.99	-	-	-	-
Highest CH	1.08	1.10	2.73	2.72	4.47	4.50	8.99	9.01	-	-	-	-

LTE Band 12

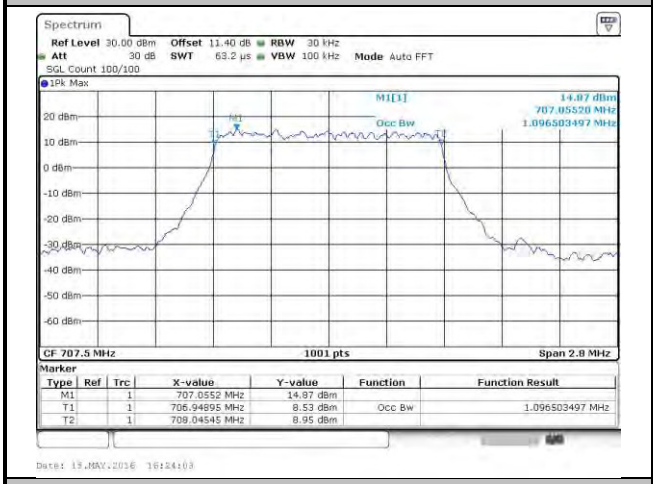
Lowest Channel / 1.4MHz / QPSK



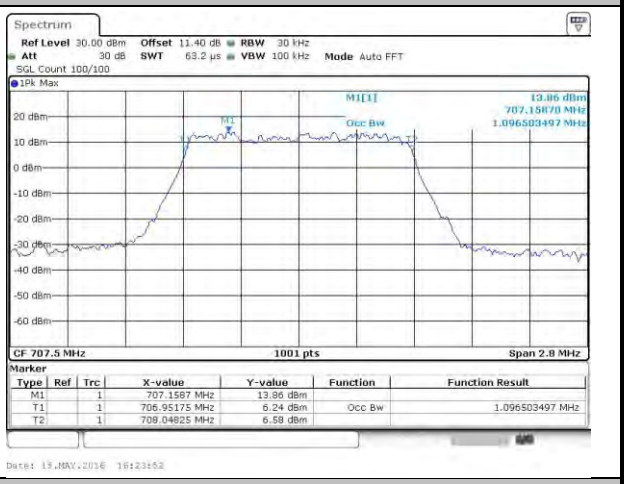
Lowest Channel / 1.4MHz / 16QAM



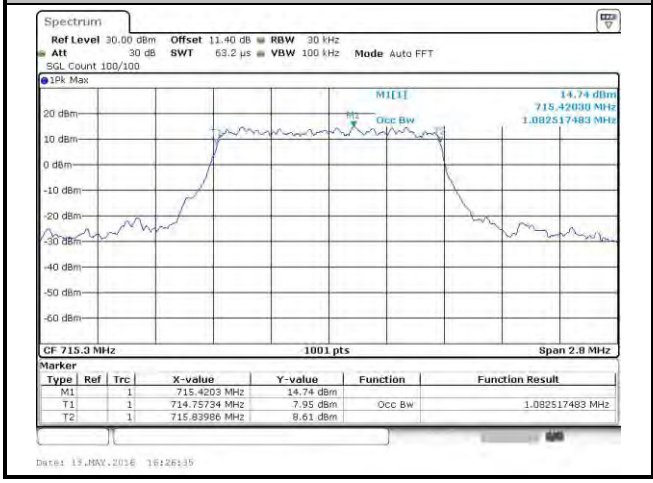
Middle Channel / 1.4MHz / QPSK



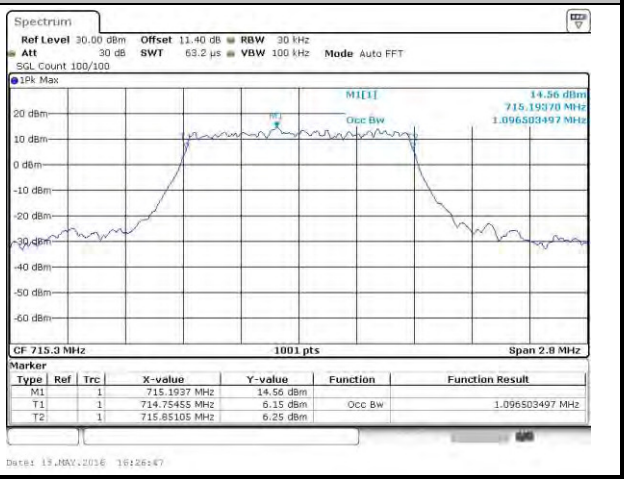
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

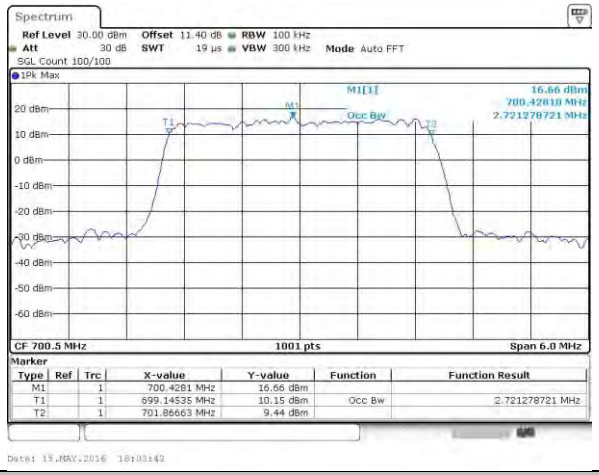


Highest Channel / 1.4MHz / 16QAM

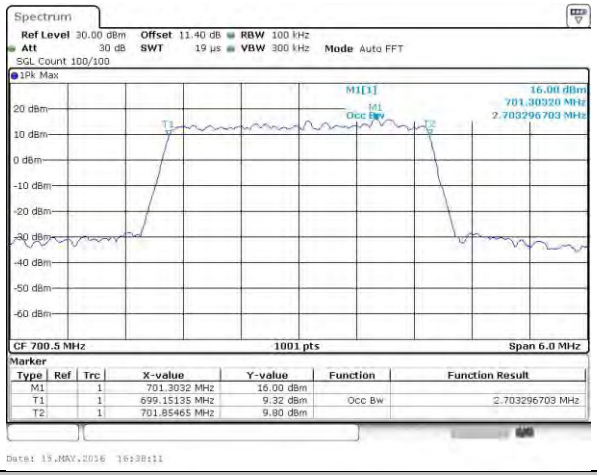


LTE Band 12

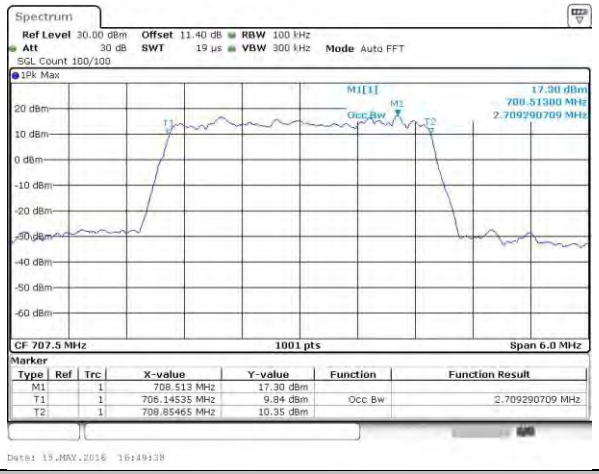
Lowest Channel / 3MHz / QPSK



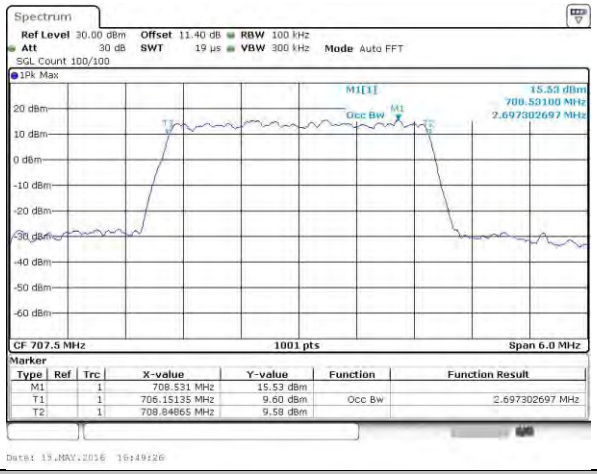
Lowest Channel / 3MHz / 16QAM



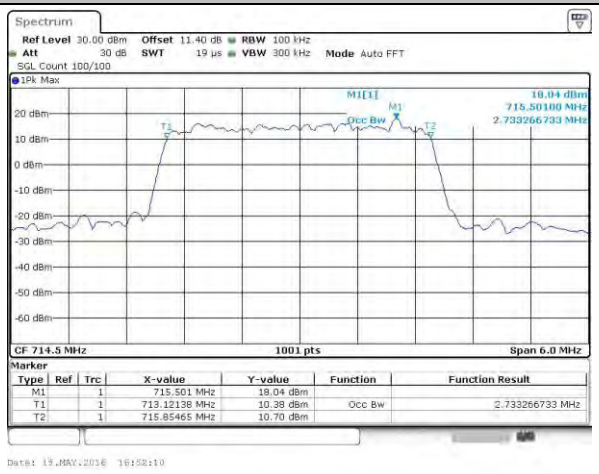
Middle Channel / 3MHz / QPSK



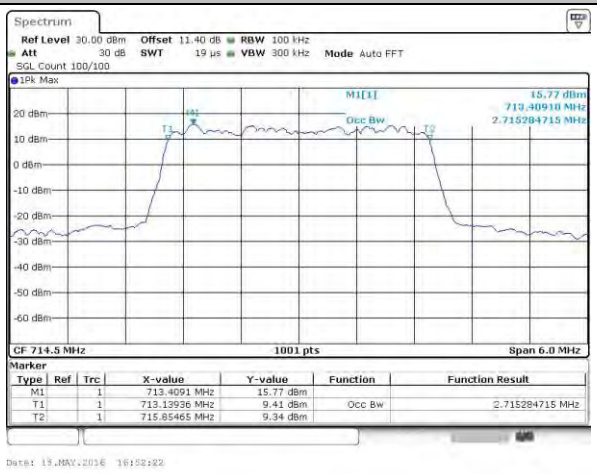
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

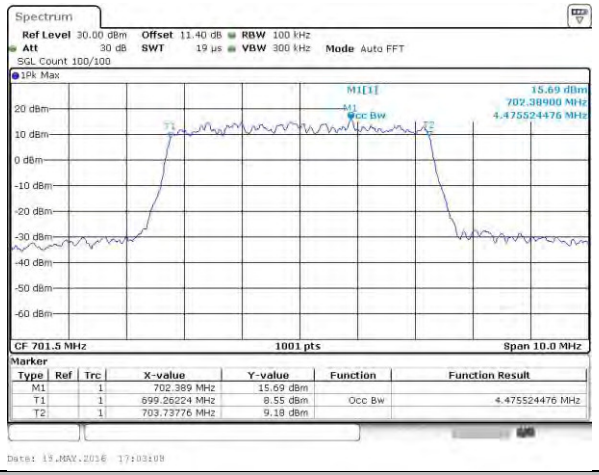


Highest Channel / 3MHz / 16QAM

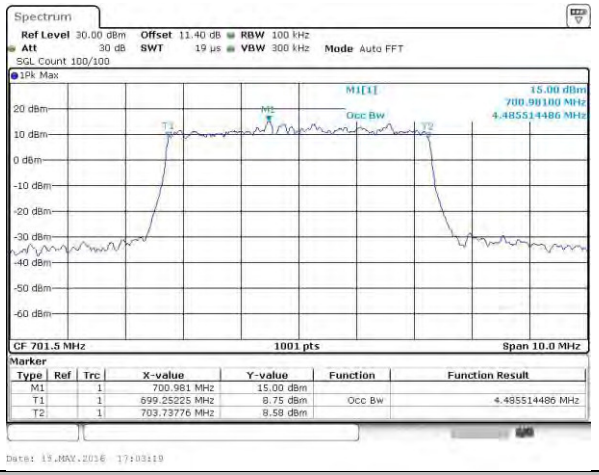


LTE Band 12

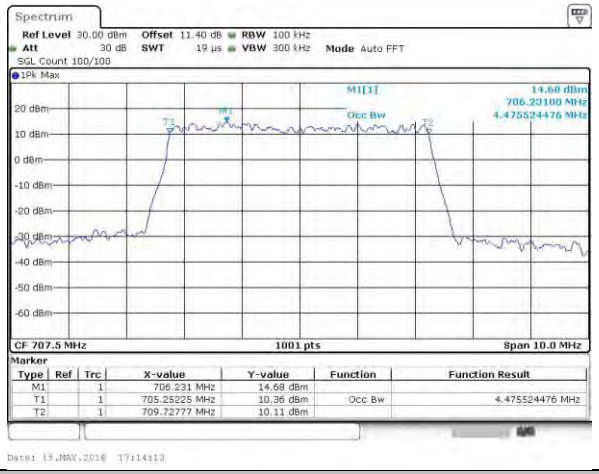
Lowest Channel / 5MHz / QPSK



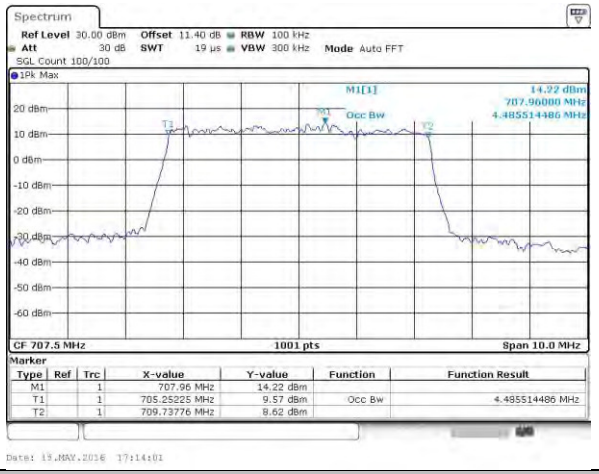
Lowest Channel / 5MHz / 16QAM



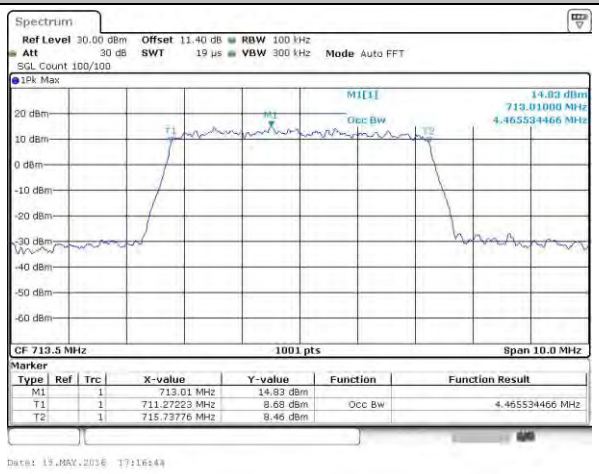
Middle Channel / 5MHz / QPSK



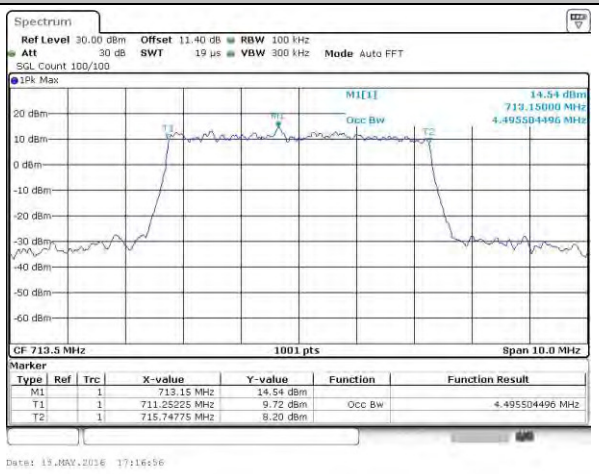
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

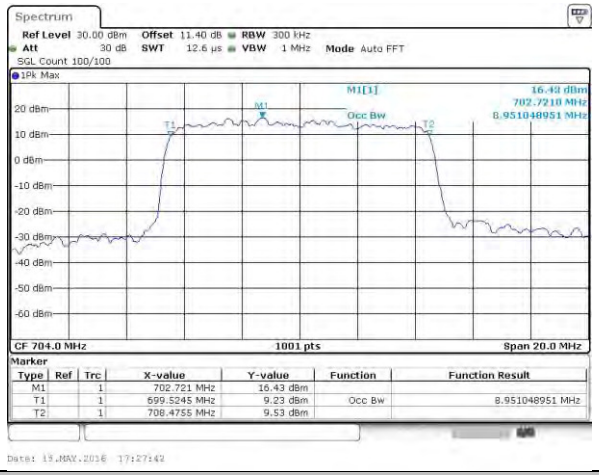


Highest Channel / 5MHz / 16QAM

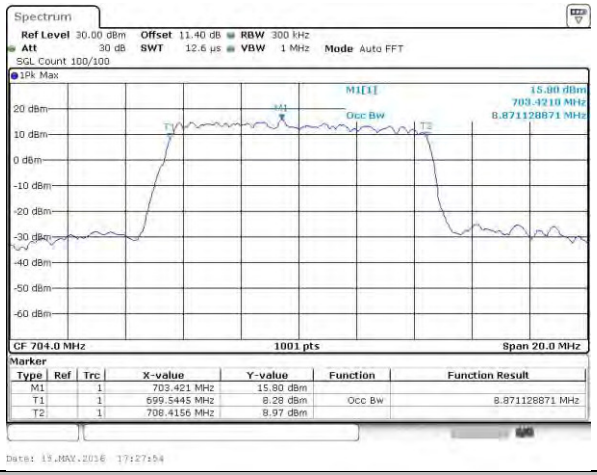


LTE Band 12

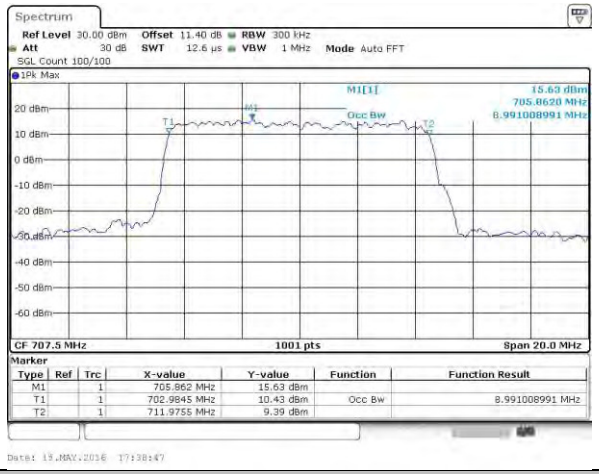
Lowest Channel / 10MHz / QPSK



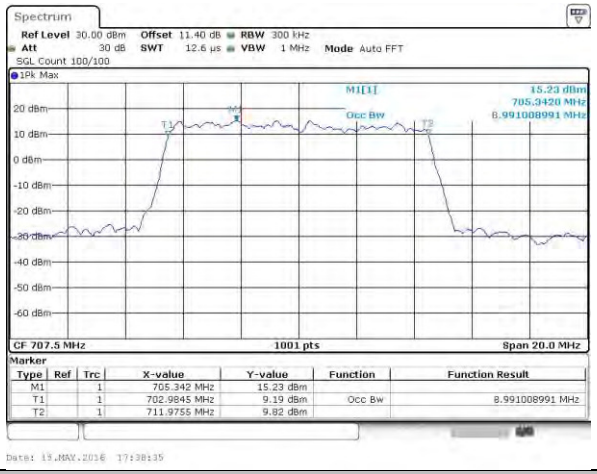
Lowest Channel / 10MHz / 16QAM



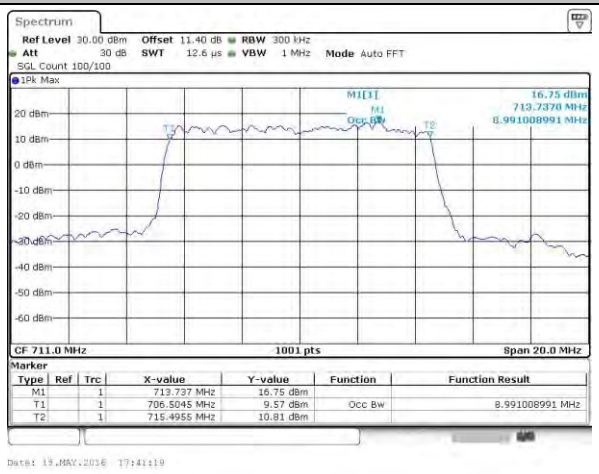
Middle Channel / 10MHz / QPSK



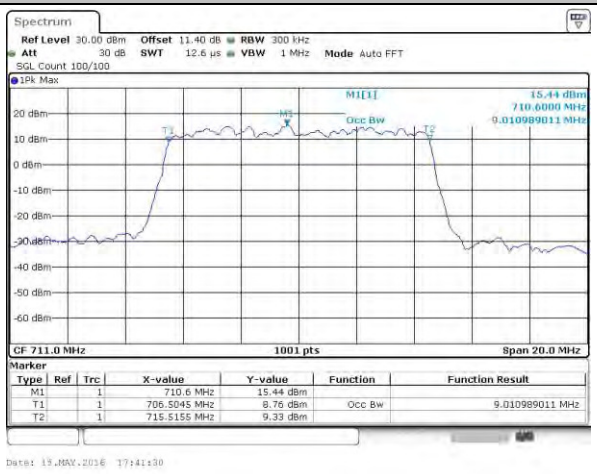
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



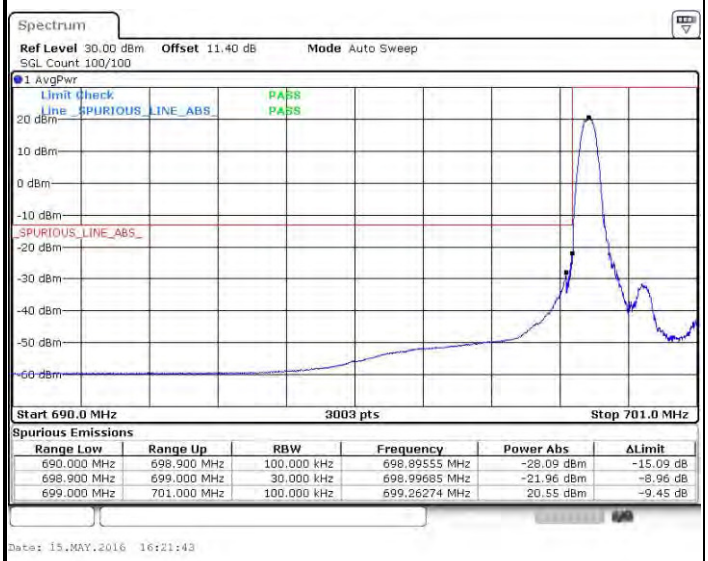
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB

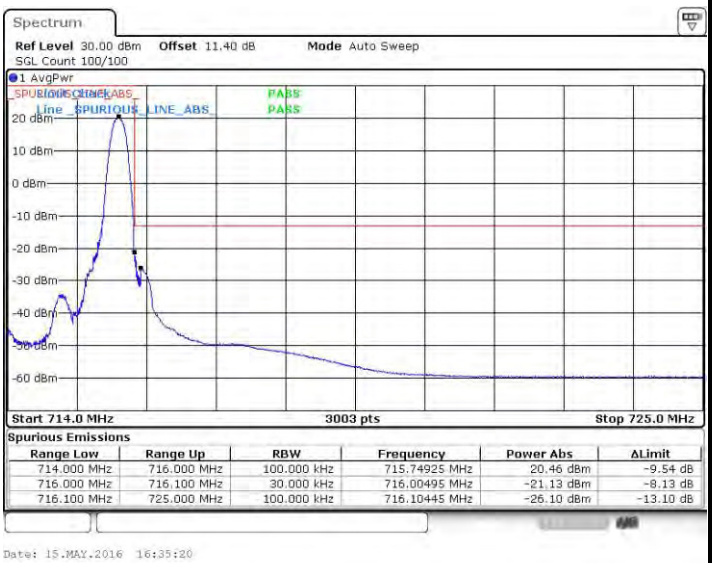


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.09 dBm	-15.09 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99685 MHz	-21.96 dBm	-8.96 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.26274 MHz	20.55 dBm	-9.45 dB

Date: 15.MAY.2016 16:21:43

Highest Band Edge / 1RB

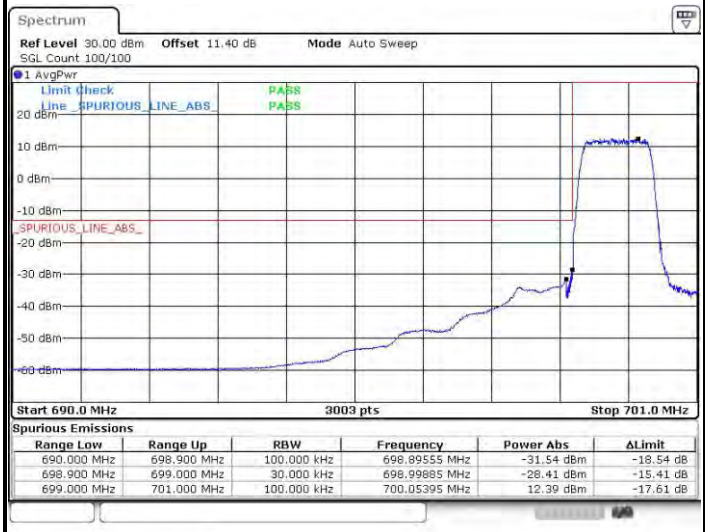


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.74925 MHz	20.46 dBm	-9.54 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00495 MHz	-21.13 dBm	-8.13 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.10 dBm	-13.10 dB

Date: 15.MAY.2016 16:35:20

Lowest Band Edge / Full RB

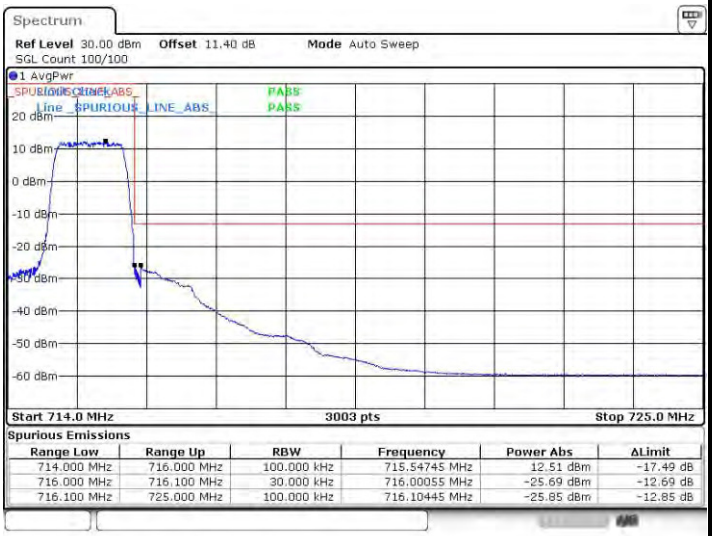


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.54 dBm	-18.54 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99885 MHz	-28.41 dBm	-15.41 dB
699.000 MHz	701.000 MHz	100.000 kHz	700.05395 MHz	12.39 dBm	-17.61 dB

Date: 15.MAY.2016 16:15:36

Highest Band Edge / Full RB



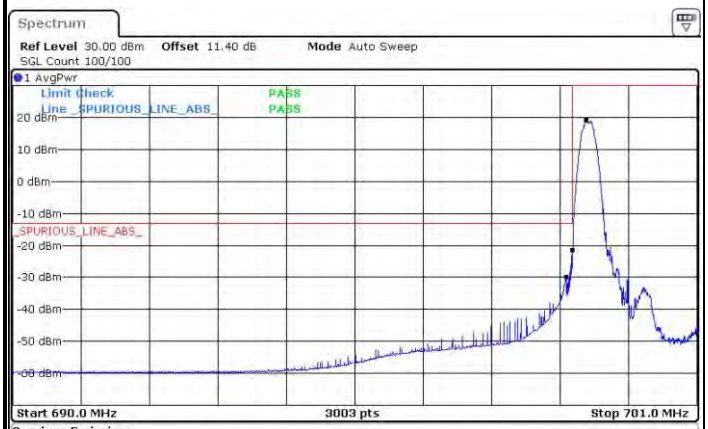
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.54745 MHz	12.51 dBm	-17.49 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00055 MHz	-25.69 dBm	-12.69 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-25.85 dBm	-12.85 dB

Date: 15.MAY.2016 16:29:13

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

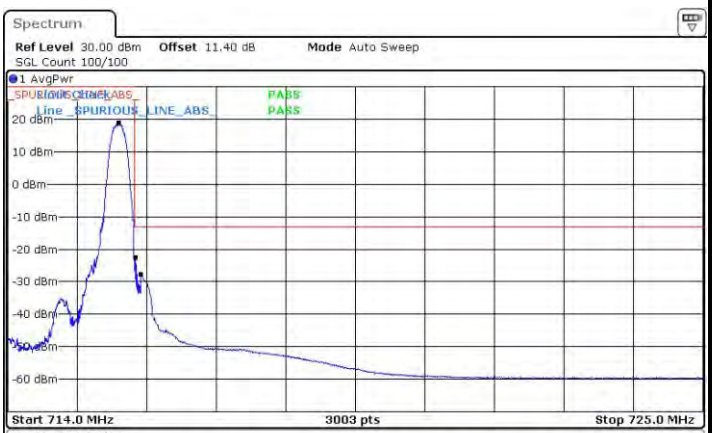


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.83 dBm	-16.83 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99625 MHz	-21.39 dBm	-8.39 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.21678 MHz	19.17 dBm	-10.83 dB

Date: 15.MAY.2016 16:19:41

Highest Band Edge / 1 RB

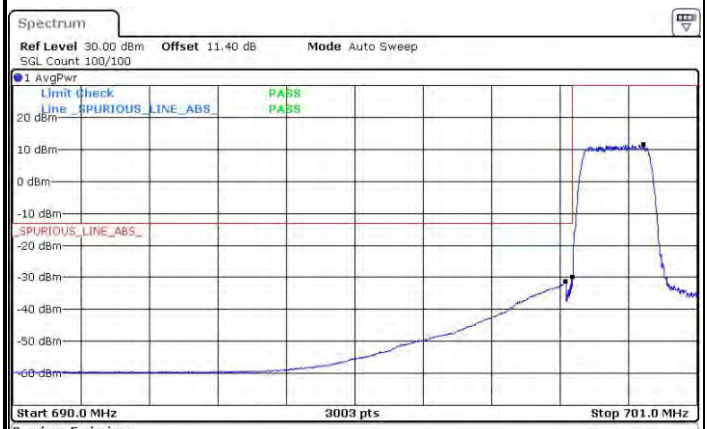


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.76124 MHz	19.01 dBm	-10.99 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01623 MHz	-22.51 dBm	-9.51 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-27.77 dBm	-14.77 dB

Date: 15.MAY.2016 16:33:18

Lowest Band Edge / Full RB

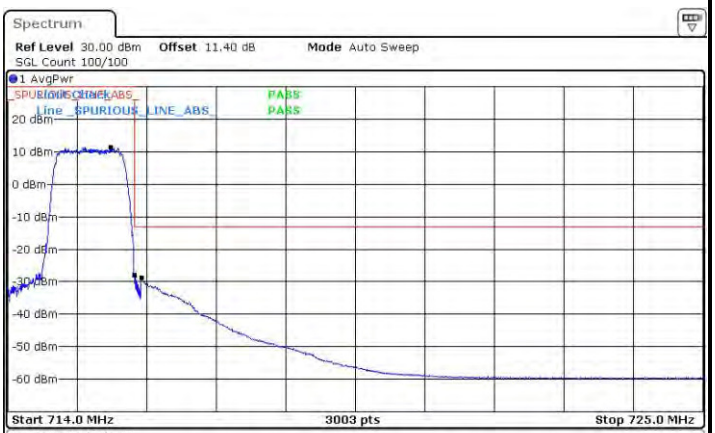


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-31.16 dBm	-18.16 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99565 MHz	-29.95 dBm	-16.95 dB
699.000 MHz	701.000 MHz	100.000 kHz	700.14186 MHz	11.56 dBm	-18.44 dB

Date: 15.MAY.2016 16:17:39

Highest Band Edge / Full RB



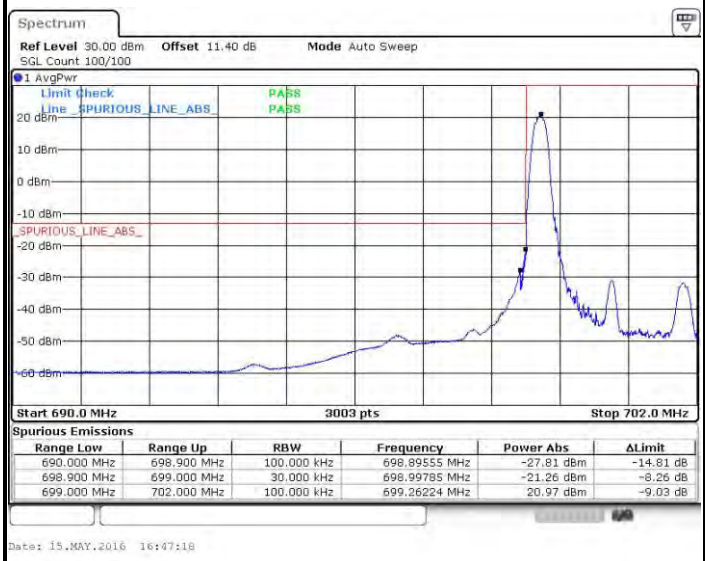
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.62537 MHz	11.36 dBm	-18.64 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00355 MHz	-27.97 dBm	-14.97 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-28.71 dBm	-15.71 dB

Date: 15.MAY.2016 16:31:15

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

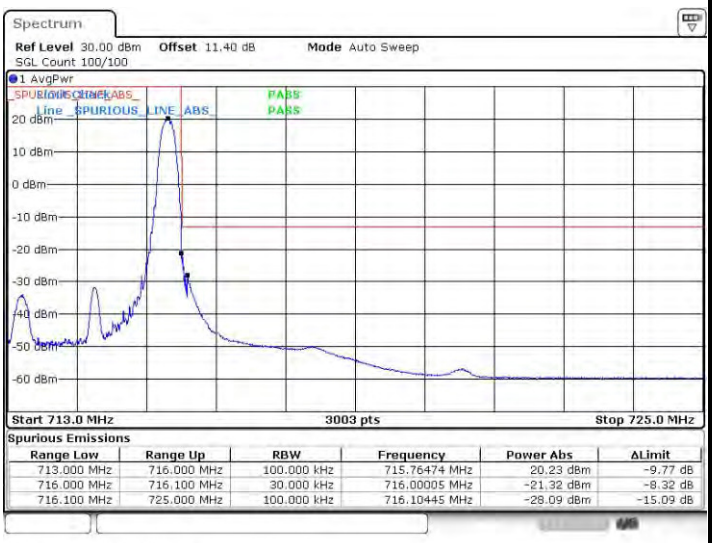


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-27.81 dBm	-14.81 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99785 MHz	-21.26 dBm	-8.26 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.26224 MHz	20.97 dBm	-9.03 dB

Date: 15.MAY.2016 16:47:18

Highest Band Edge / 1 RB

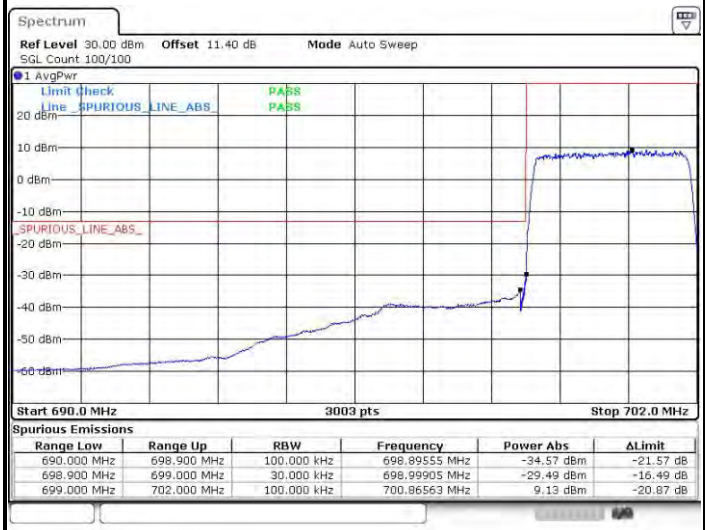


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.76474 MHz	20.23 dBm	-9.77 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-21.32 dBm	-8.32 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-28.09 dBm	-15.09 dB

Date: 15.MAY.2016 17:00:55

Lowest Band Edge / Full RB

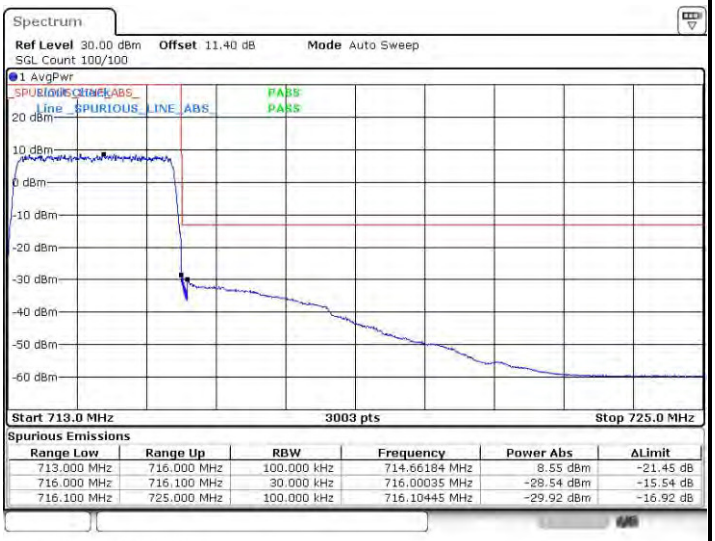


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-34.57 dBm	-21.57 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99905 MHz	-29.49 dBm	-16.49 dB
699.000 MHz	702.000 MHz	100.000 kHz	700.86563 MHz	9.13 dBm	-20.87 dB

Date: 15.MAY.2016 16:41:11

Highest Band Edge / Full RB



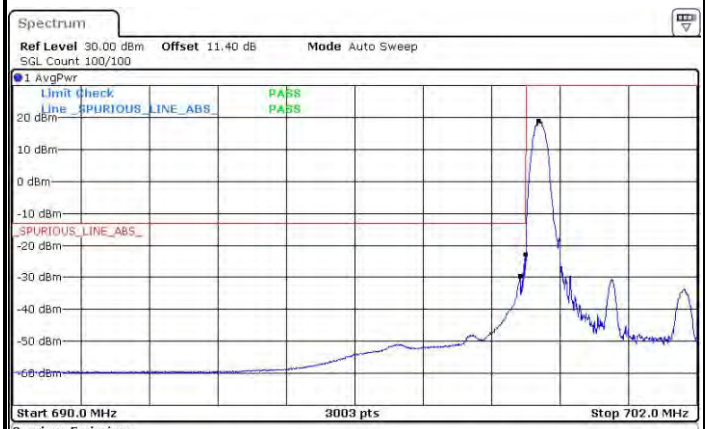
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.66184 MHz	8.55 dBm	-21.45 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00035 MHz	-28.54 dBm	-15.54 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.92 dBm	-16.92 dB

Date: 15.MAY.2016 16:54:48

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

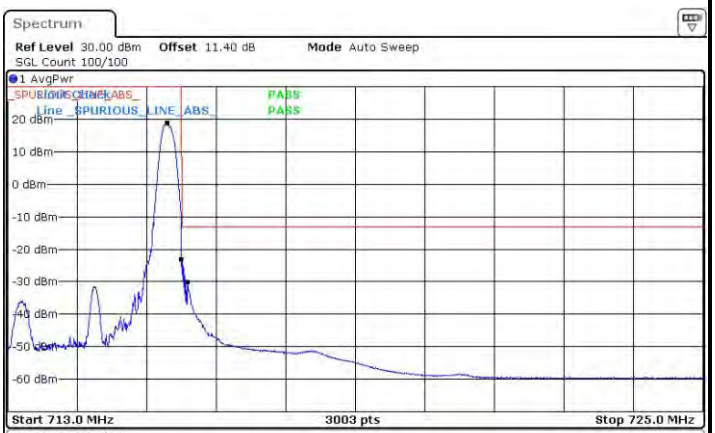


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.56 dBm	-16.56 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99775 MHz	-22.85 dBm	-9.85 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.21728 MHz	18.89 dBm	-11.11 dB

Date: 15.MAY.2016 16:45:16

Highest Band Edge / 1 RB

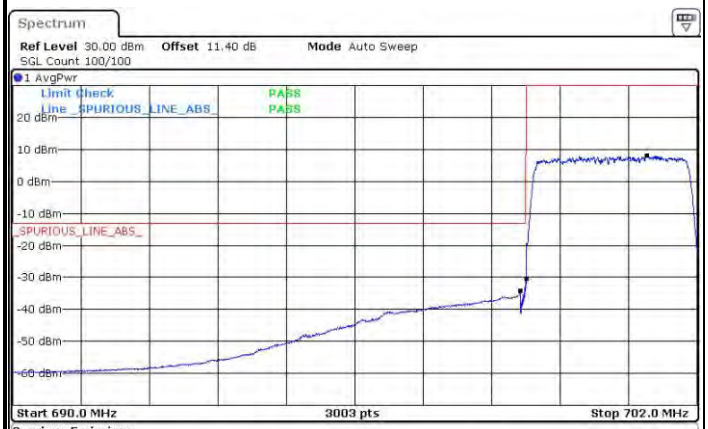


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.74975 MHz	18.83 dBm	-11.17 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00025 MHz	-23.05 dBm	-10.05 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.24 dBm	-17.24 dB

Date: 15.MAY.2016 16:58:53

Lowest Band Edge / Full RB

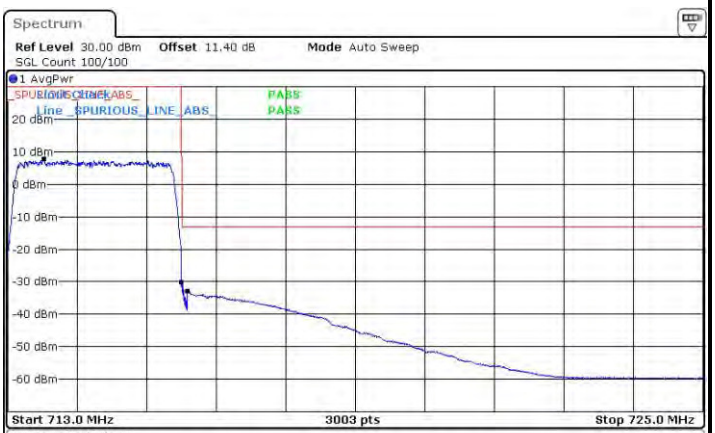


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-34.31 dBm	-21.31 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99905 MHz	-30.42 dBm	-17.42 dB
699.000 MHz	702.000 MHz	100.000 kHz	701.11439 MHz	8.10 dBm	-21.90 dB

Date: 15.MAY.2016 16:43:13

Highest Band Edge / Full RB



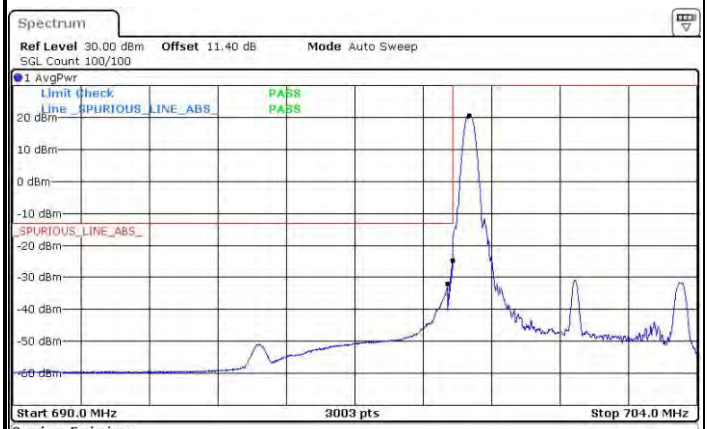
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.62488 MHz	7.75 dBm	-22.25 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00075 MHz	-30.18 dBm	-17.18 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.76 dBm	-19.76 dB

Date: 15.MAY.2016 16:56:50

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

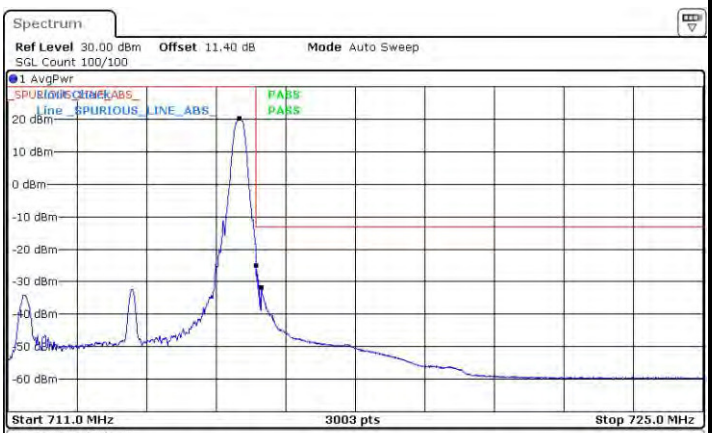


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.14 dBm	-19.14 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99745 MHz	-24.85 dBm	-11.85 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.34715 MHz	20.51 dBm	-9.49 dB

Date: 15.MAY.2016 17:11:53

Highest Band Edge / 1 RB

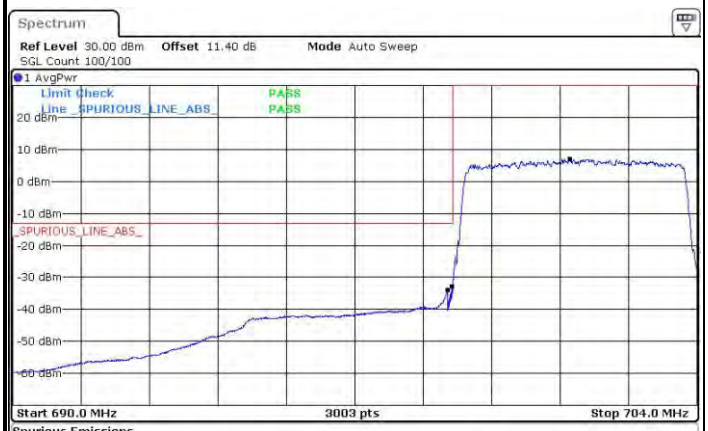


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.65285 MHz	20.22 dBm	-9.78 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00135 MHz	-25.08 dBm	-12.08 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.73 dBm	-18.73 dB

Date: 15.MAY.2016 17:23:27

Lowest Band Edge / Full RB

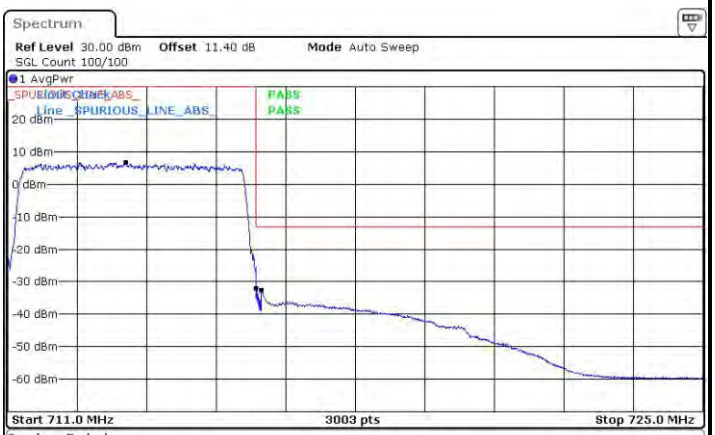


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-34.04 dBm	-21.04 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99146 MHz	-32.77 dBm	-19.77 dB
699.000 MHz	704.000 MHz	100.000 kHz	701.38511 MHz	6.86 dBm	-23.14 dB

Date: 15.MAY.2016 17:05:45

Highest Band Edge / Full RB



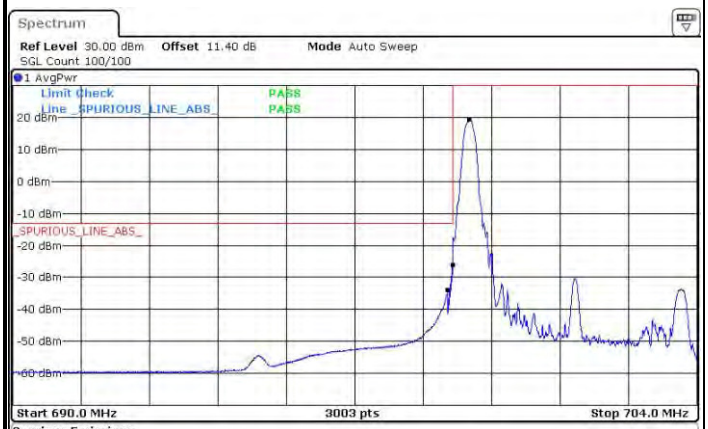
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	713.37512 MHz	6.81 dBm	-23.19 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-32.06 dBm	-19.06 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.65 dBm	-19.65 dB

Date: 15.MAY.2016 17:19:22

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

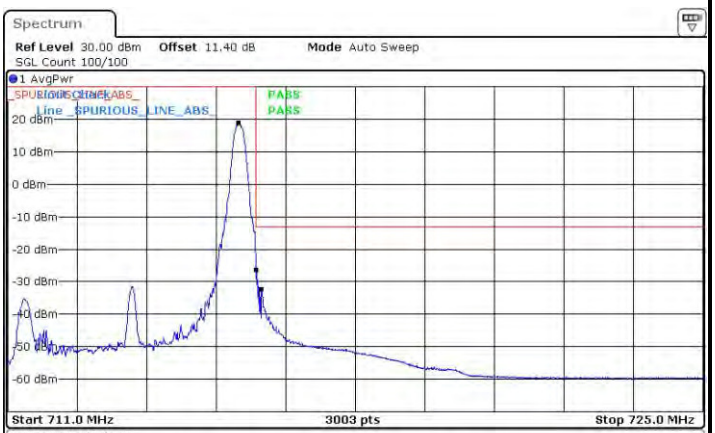


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.83 dBm	-20.83 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99915 MHz	-26.06 dBm	-13.06 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.33716 MHz	19.49 dBm	-10.51 dB

Date: 15.MAY.2016 17:09:50

Highest Band Edge / 1 RB

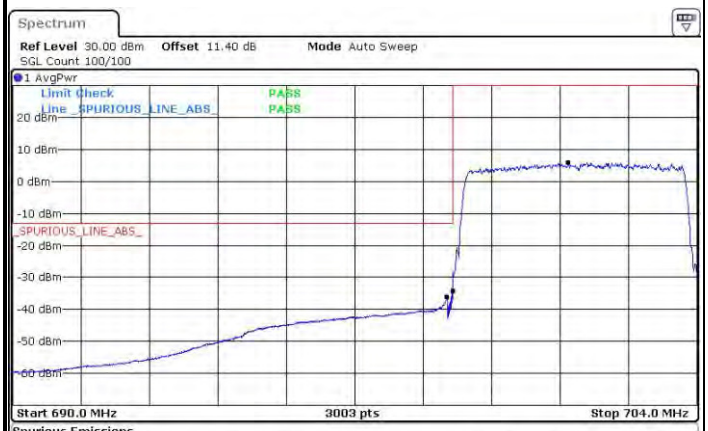


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.64785 MHz	18.94 dBm	-11.06 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-26.44 dBm	-13.44 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.42 dBm	-19.42 dB

Date: 15.MAY.2016 17:25:30

Lowest Band Edge / Full RB

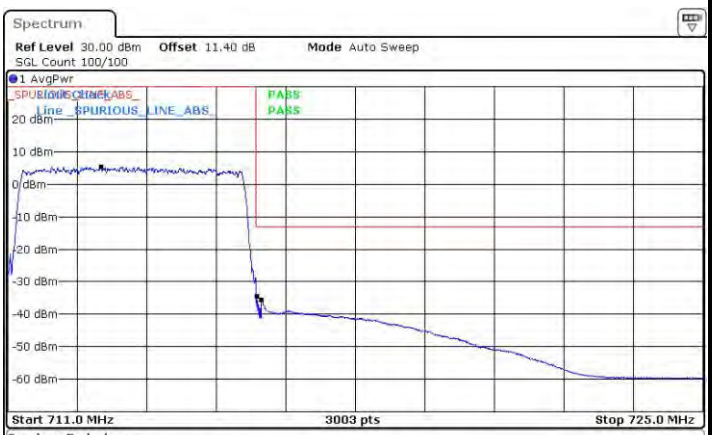


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-36.04 dBm	-23.04 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99735 MHz	-34.22 dBm	-21.22 dB
699.000 MHz	704.000 MHz	100.000 kHz	701.36513 MHz	5.85 dBm	-24.15 dB

Date: 15.MAY.2016 17:07:48

Highest Band Edge / Full RB



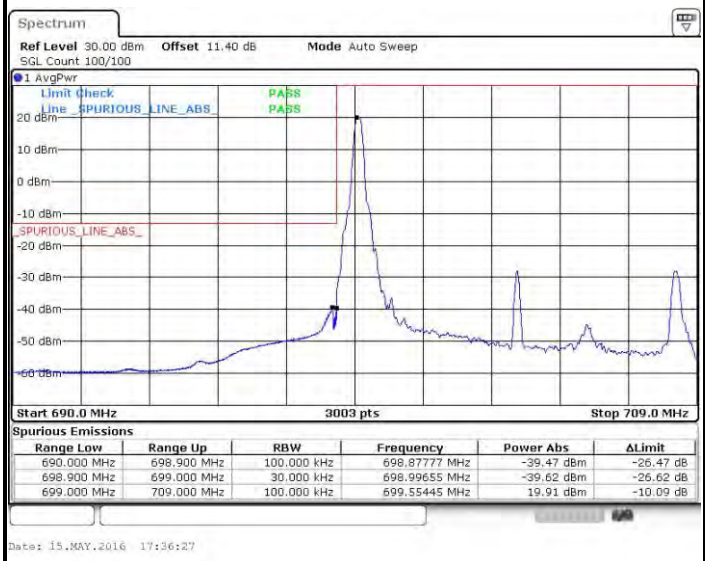
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.87562 MHz	5.44 dBm	-24.56 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00784 MHz	-34.49 dBm	-21.49 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.49 dBm	-22.49 dB

Date: 15.MAY.2016 17:21:24

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

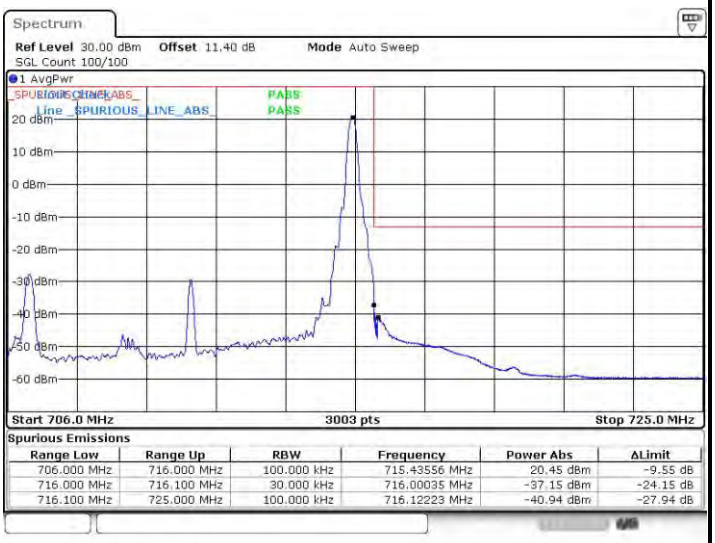


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.87777 MHz	-39.47 dBm	-26.47 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99655 MHz	-39.62 dBm	-26.62 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.55445 MHz	19.91 dBm	-10.09 dB

Date: 15.MAY.2016 17:36:27

Highest Band Edge / 1 RB

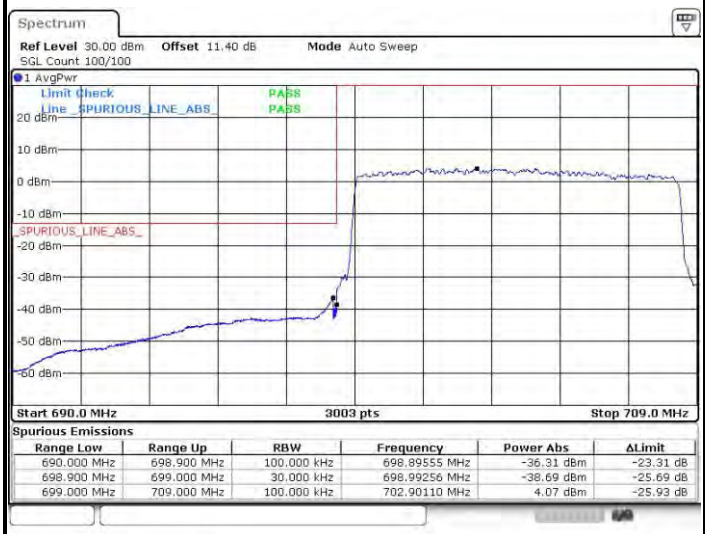


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.43556 MHz	20.45 dBm	-9.55 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00035 MHz	-37.15 dBm	-24.15 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-40.94 dBm	-27.94 dB

Date: 15.MAY.2016 17:50:04

Lowest Band Edge / Full RB

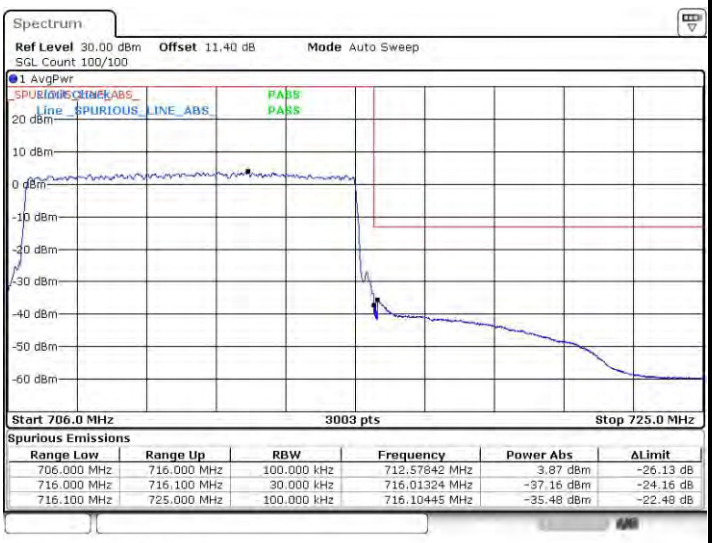


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-36.31 dBm	-23.31 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99256 MHz	-38.69 dBm	-25.69 dB
699.000 MHz	709.000 MHz	100.000 kHz	702.90110 MHz	4.07 dBm	-25.93 dB

Date: 15.MAY.2016 17:30:20

Highest Band Edge / Full RB



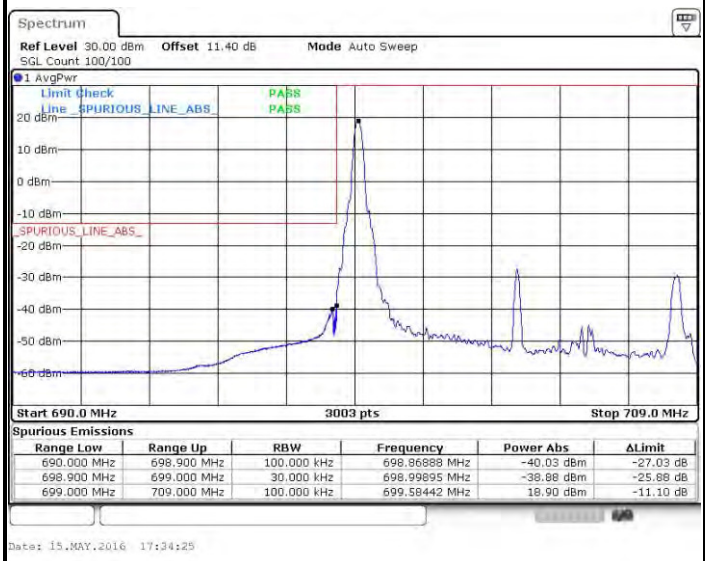
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	712.57842 MHz	3.87 dBm	-26.13 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01324 MHz	-37.16 dBm	-24.16 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.48 dBm	-22.48 dB

Date: 15.MAY.2016 17:43:56

LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

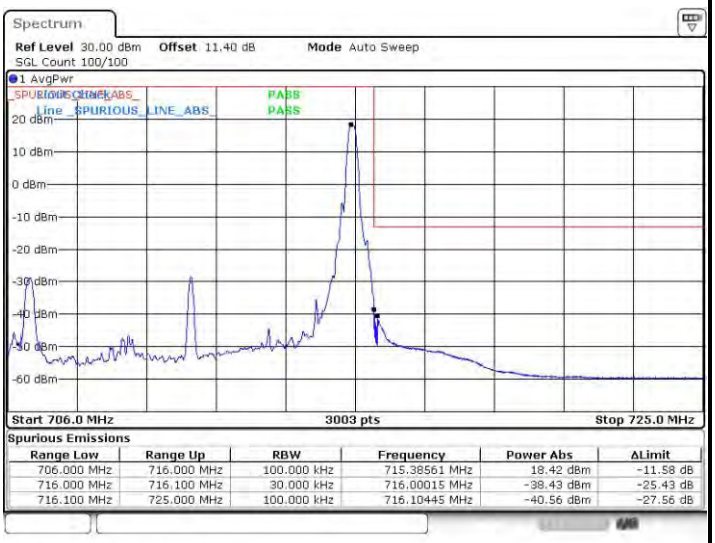


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.86888 MHz	-40.03 dBm	-27.03 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99895 MHz	-38.88 dBm	-25.88 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.58442 MHz	18.90 dBm	-11.10 dB

Date: 15.MAY.2016 17:34:25

Highest Band Edge / 1 RB

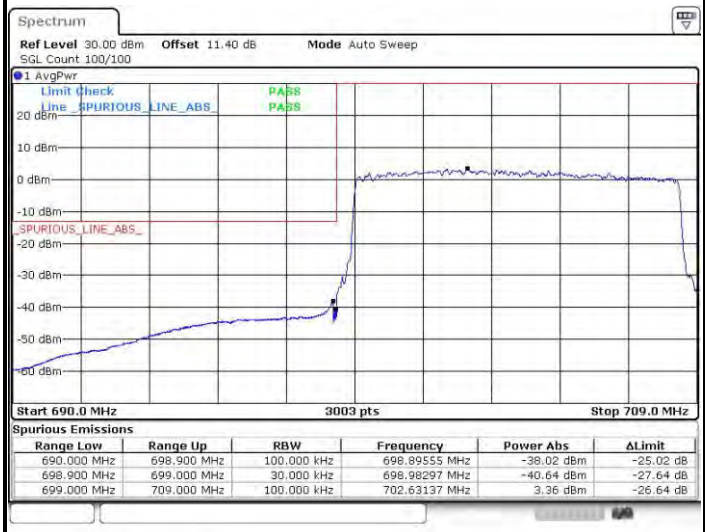


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.38561 MHz	18.42 dBm	-11.58 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00015 MHz	-38.43 dBm	-25.43 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-40.56 dBm	-27.56 dB

Date: 15.MAY.2016 17:48:01

Lowest Band Edge / Full RB

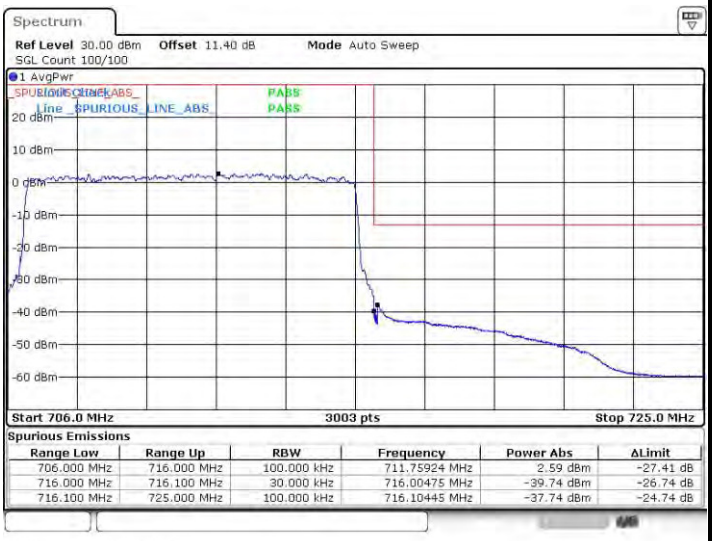


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-38.02 dBm	-25.02 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.98297 MHz	-40.64 dBm	-27.64 dB
699.000 MHz	709.000 MHz	100.000 kHz	702.63137 MHz	3.36 dBm	-26.64 dB

Date: 15.MAY.2016 17:32:22

Highest Band Edge / Full RB



Spurious Emissions

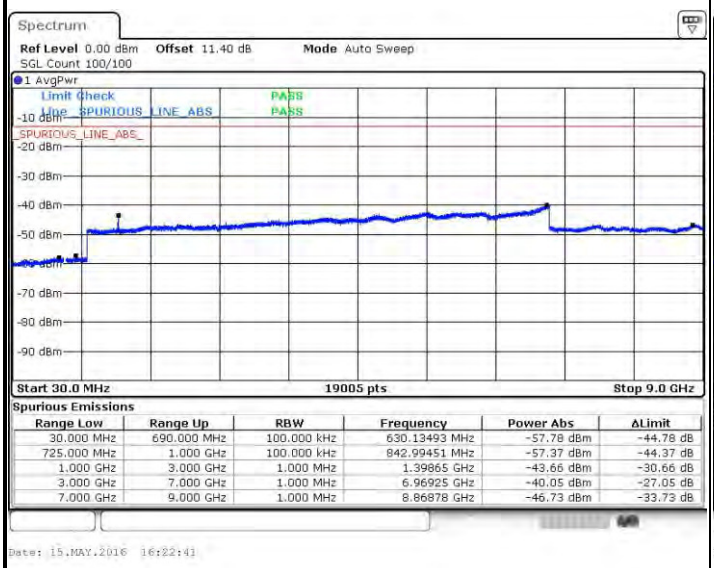
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.75924 MHz	2.59 dBm	-27.41 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00475 MHz	-39.74 dBm	-26.74 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-37.74 dBm	-24.74 dB

Date: 15.MAY.2016 17:45:59

Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

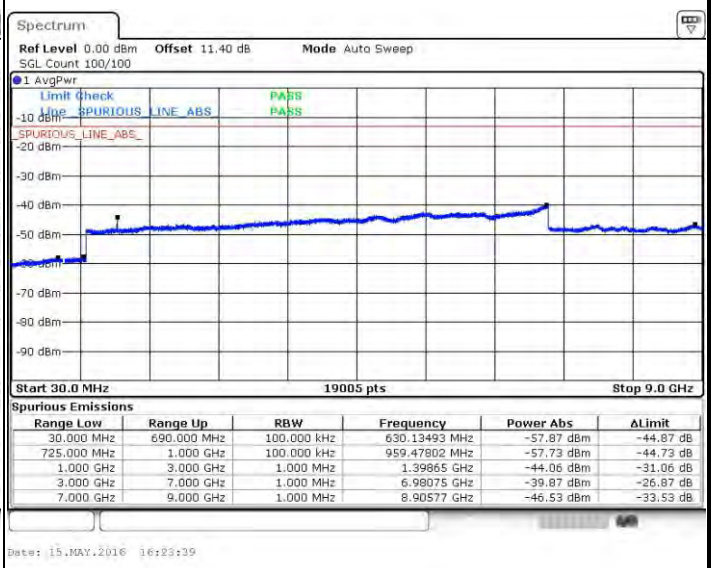


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.13493 MHz	-57.78 dBm	-44.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	842.99451 MHz	-57.37 dBm	-44.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-43.66 dBm	-30.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96925 GHz	-40.05 dBm	-27.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.86878 GHz	-46.73 dBm	-33.73 dB

Date: 15.MAY.2016 16:22:41

Lowest Channel / 16QAM

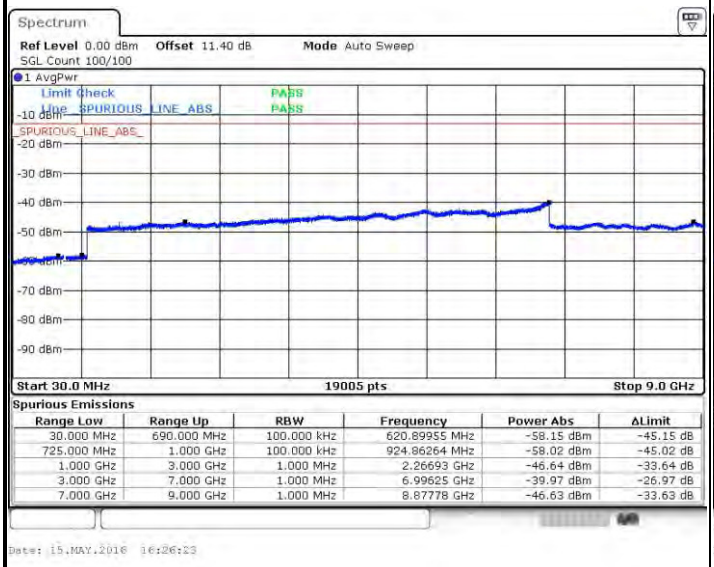


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.13493 MHz	-57.87 dBm	-44.87 dB
725.000 MHz	1.000 GHz	100.000 kHz	959.47802 MHz	-57.73 dBm	-44.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.06 dBm	-31.06 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98075 GHz	-39.87 dBm	-26.87 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90577 GHz	-46.53 dBm	-33.53 dB

Date: 15.MAY.2016 16:23:39

Middle Channel / QPSK

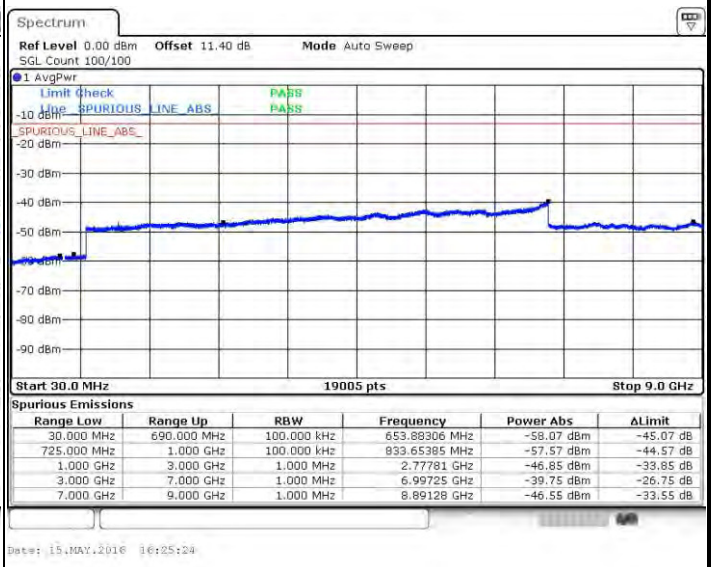


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	620.89955 MHz	-58.15 dBm	-45.15 dB
725.000 MHz	1.000 GHz	100.000 kHz	924.86264 MHz	-58.02 dBm	-45.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.26693 GHz	-46.64 dBm	-33.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-39.97 dBm	-26.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87778 GHz	-46.63 dBm	-33.63 dB

Date: 15.MAY.2016 16:26:23

Middle Channel / 16QAM



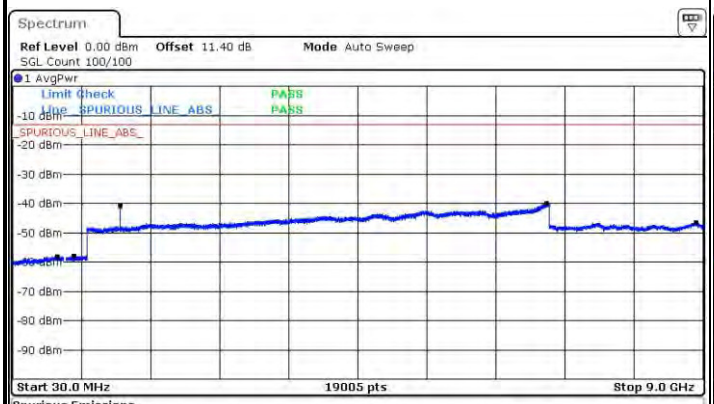
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	653.88306 MHz	-58.07 dBm	-45.07 dB
725.000 MHz	1.000 GHz	100.000 kHz	833.65385 MHz	-57.57 dBm	-44.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.77781 GHz	-46.85 dBm	-33.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99725 GHz	-39.75 dBm	-26.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89128 GHz	-46.55 dBm	-33.55 dB

Date: 15.MAY.2016 16:25:24

LTE Band 12 / 1.4MHz

Highest Channel / QPSK

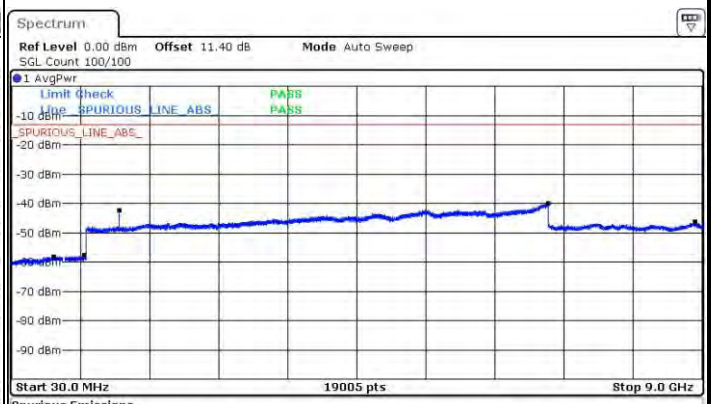


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	611.99400 MHz	-58.18 dBm	-45.18 dB
725.000 MHz	1.000 GHz	100.000 kHz	824.31319 MHz	-57.90 dBm	-44.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-40.95 dBm	-27.95 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96625 GHz	-39.91 dBm	-26.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90677 GHz	-46.53 dBm	-33.53 dB

Date: 15.MAY.2016 16:36:16

Highest Channel / 16QAM



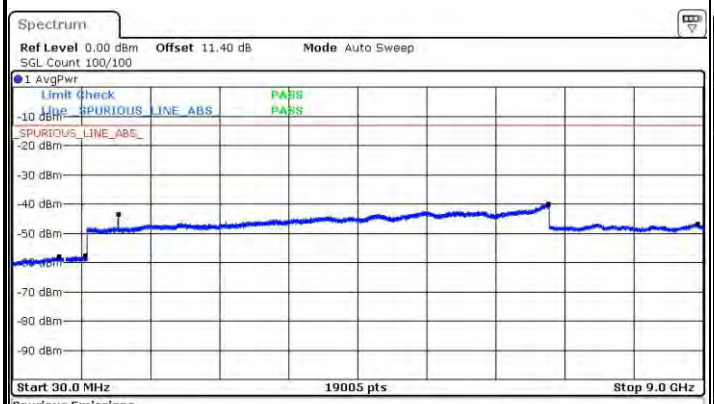
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	569.77511 MHz	-58.19 dBm	-45.19 dB
725.000 MHz	1.000 GHz	100.000 kHz	970.46703 MHz	-57.73 dBm	-44.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-42.36 dBm	-29.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-39.97 dBm	-26.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90477 GHz	-46.39 dBm	-33.39 dB

Date: 15.MAY.2016 16:37:16

LTE Band 12 / 3MHz

Lowest Channel / QPSK

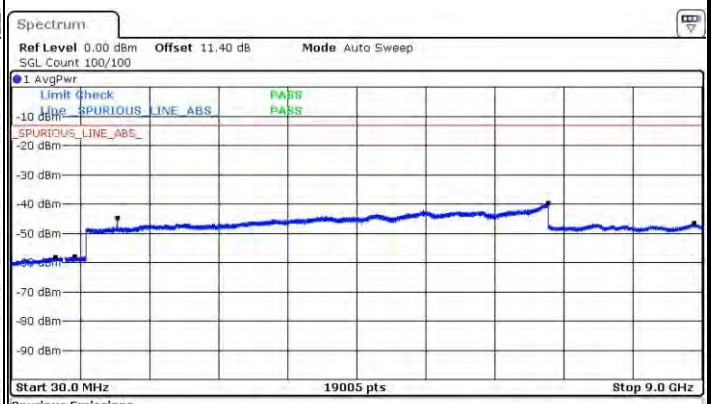


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.13493 MHz	-57.93 dBm	-44.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	972.66484 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-43.47 dBm	-30.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-39.89 dBm	-26.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.93227 GHz	-46.75 dBm	-33.75 dB

Date: 15.MAY.2016 16:48:16

Lowest Channel / 16QAM



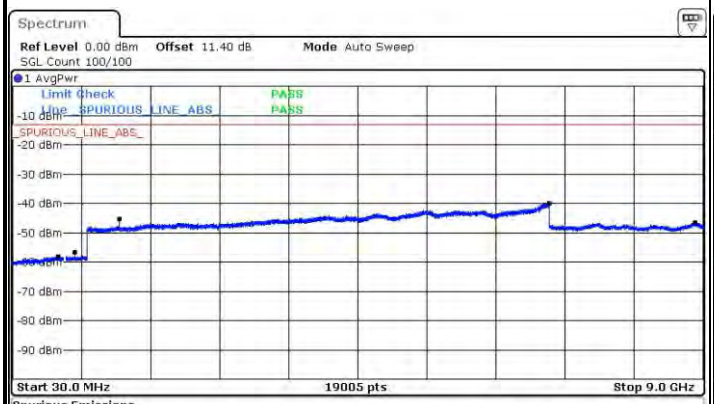
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	593.52324 MHz	-58.23 dBm	-45.23 dB
725.000 MHz	1.000 GHz	100.000 kHz	842.99451 MHz	-57.88 dBm	-44.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.73 dBm	-31.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99675 GHz	-39.77 dBm	-26.77 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90277 GHz	-46.62 dBm	-33.62 dB

Date: 15.MAY.2016 16:49:14

LTE Band 12 / 3MHz

Middle Channel / QPSK

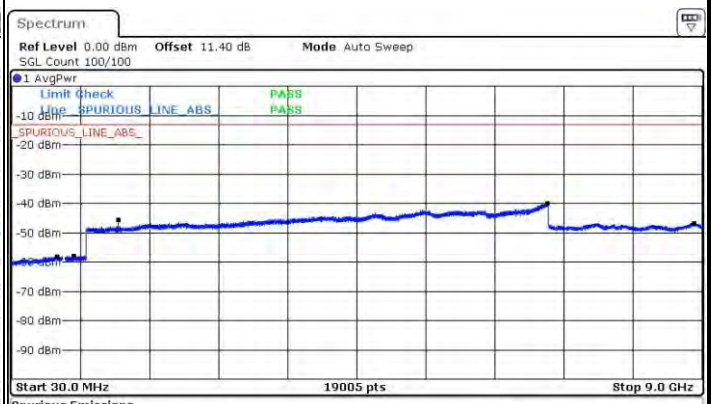


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.88906 MHz	-58.24 dBm	-45.24 dB
725.000 MHz	1.000 GHz	100.000 kHz	834.47802 MHz	-56.86 dBm	-43.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-45.35 dBm	-32.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-39.95 dBm	-26.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89878 GHz	-46.54 dBm	-33.54 dB

Date: 15.MAY.2016 16:51:58

Middle Channel / 16QAM

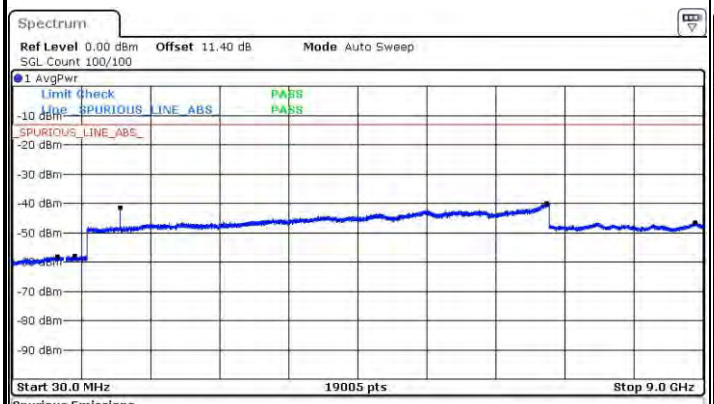


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.88906 MHz	-58.14 dBm	-45.14 dB
725.000 MHz	1.000 GHz	100.000 kHz	834.47802 MHz	-57.97 dBm	-44.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-45.61 dBm	-32.61 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-39.91 dBm	-26.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89278 GHz	-46.82 dBm	-33.82 dB

Date: 15.MAY.2016 16:50:59

Highest Channel / QPSK

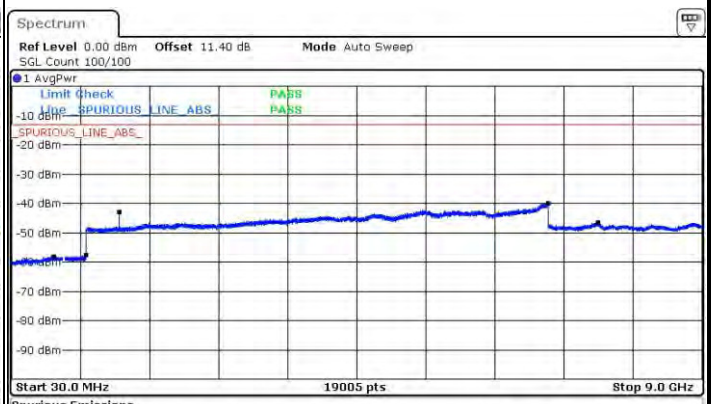


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	613.64318 MHz	-58.09 dBm	-45.09 dB
725.000 MHz	1.000 GHz	100.000 kHz	830.90659 MHz	-58.01 dBm	-45.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-41.37 dBm	-28.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96875 GHz	-40.05 dBm	-27.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89728 GHz	-46.62 dBm	-33.62 dB

Date: 15.MAY.2016 17:01:53

Highest Channel / 16QAM



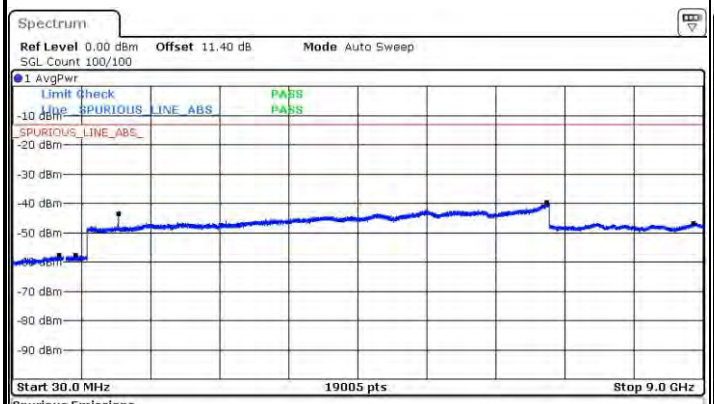
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	580.32984 MHz	-58.21 dBm	-45.21 dB
725.000 MHz	1.000 GHz	100.000 kHz	990.52198 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-42.85 dBm	-29.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99725 GHz	-39.98 dBm	-26.98 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.64759 GHz	-46.57 dBm	-33.57 dB

Date: 15.MAY.2016 17:02:51

LTE Band 12 / 5MHz

Lowest Channel / QPSK

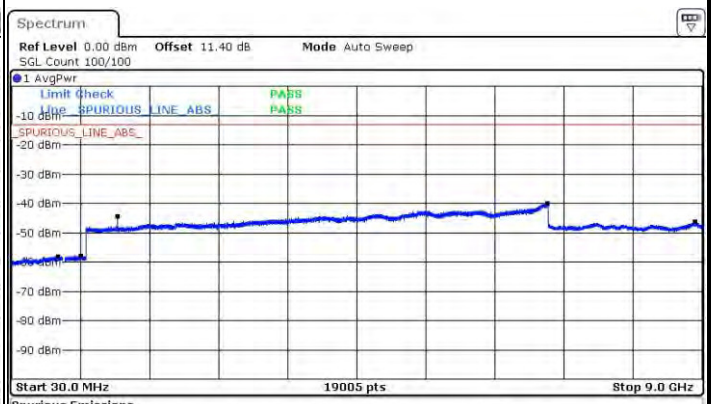


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.13493 MHz	-57.72 dBm	-44.72 dB
725.000 MHz	1.000 GHz	100.000 kHz	842.71978 MHz	-57.76 dBm	-44.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-43.52 dBm	-30.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96925 GHz	-39.74 dBm	-26.74 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87378 GHz	-46.79 dBm	-33.79 dB

Date: 15.MAY.2016 17:12:50

Lowest Channel / 16QAM

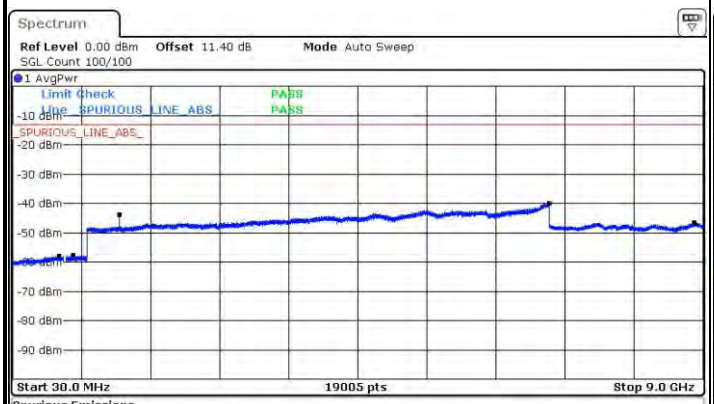


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.13493 MHz	-58.15 dBm	-45.15 dB
725.000 MHz	1.000 GHz	100.000 kHz	926.78571 MHz	-57.90 dBm	-44.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-44.49 dBm	-31.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-39.86 dBm	-26.86 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90477 GHz	-46.38 dBm	-33.38 dB

Date: 15.MAY.2016 17:13:40

Middle Channel / QPSK

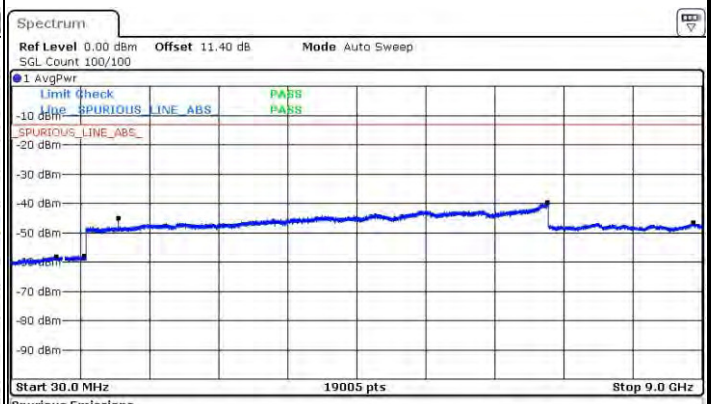


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	629.47526 MHz	-58.03 dBm	-45.03 dB
725.000 MHz	1.000 GHz	100.000 kHz	819.09341 MHz	-57.72 dBm	-44.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-43.94 dBm	-30.94 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-39.95 dBm	-26.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88778 GHz	-46.65 dBm	-33.65 dB

Date: 15.MAY.2016 17:16:32

Middle Channel / 16QAM



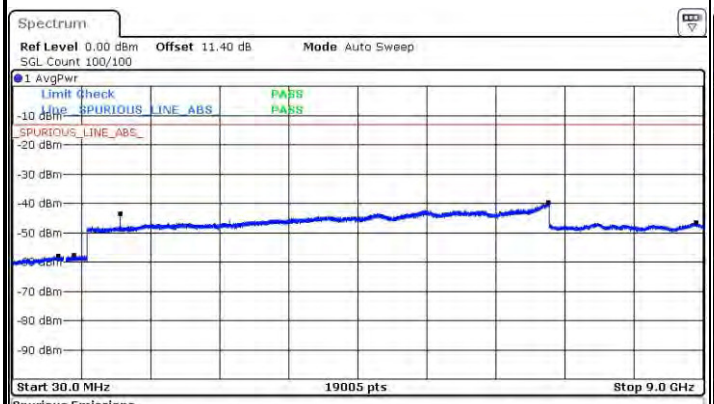
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	613.64318 MHz	-58.12 dBm	-45.12 dB
725.000 MHz	1.000 GHz	100.000 kHz	967.17033 MHz	-57.79 dBm	-44.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-45.17 dBm	-32.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99225 GHz	-39.83 dBm	-26.83 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89128 GHz	-46.62 dBm	-33.62 dB

Date: 15.MAY.2016 17:15:33

LTE Band 12 / 5MHz

Highest Channel / QPSK

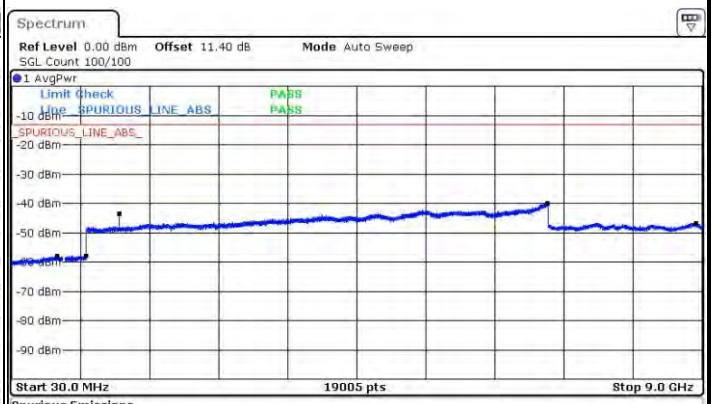


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	615.95202 MHz	-57.92 dBm	-44.92 dB
725.000 MHz	1.000 GHz	100.000 kHz	828.43407 MHz	-57.49 dBm	-44.49 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-43.45 dBm	-30.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99075 GHz	-39.83 dBm	-26.83 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90527 GHz	-46.71 dBm	-33.71 dB

Date: 15.MAY.2016 17:27:25

Highest Channel / 16QAM



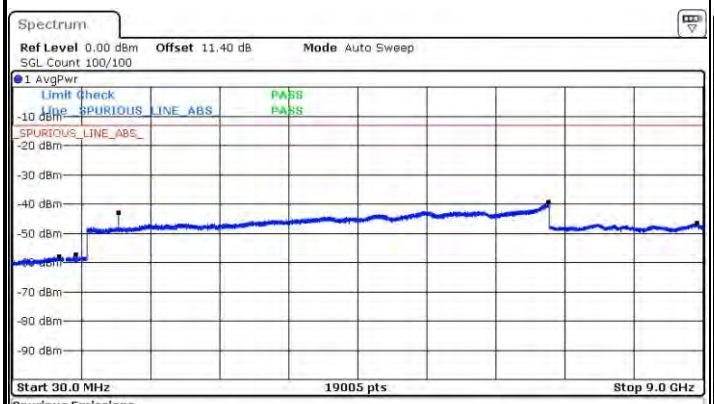
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	615.95202 MHz	-57.89 dBm	-44.89 dB
725.000 MHz	1.000 GHz	100.000 kHz	990.79670 MHz	-57.86 dBm	-44.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-43.53 dBm	-30.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-40.14 dBm	-27.14 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92277 GHz	-46.74 dBm	-33.74 dB

Date: 15.MAY.2016 17:26:27

LTE Band 12 / 10MHz

Lowest Channel / QPSK

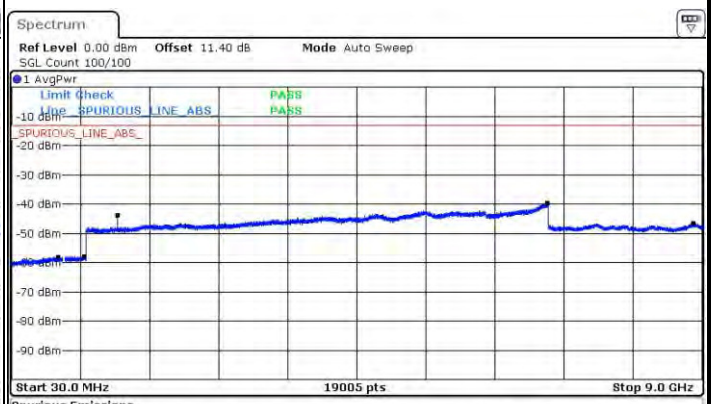


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	629.80510 MHz	-57.98 dBm	-44.98 dB
725.000 MHz	1.000 GHz	100.000 kHz	842.44505 MHz	-57.40 dBm	-44.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-42.92 dBm	-29.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99275 GHz	-39.47 dBm	-26.47 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92077 GHz	-46.68 dBm	-33.68 dB

Date: 15.MAY.2016 17:37:25

Lowest Channel / 16QAM



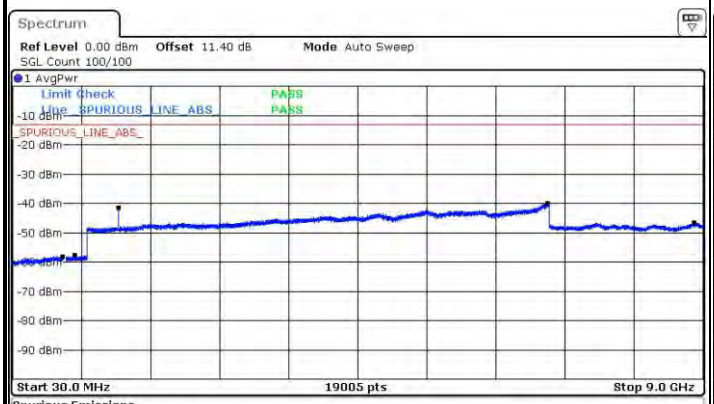
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	629.80510 MHz	-58.19 dBm	-45.19 dB
725.000 MHz	1.000 GHz	100.000 kHz	968.54396 MHz	-57.83 dBm	-44.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-43.93 dBm	-30.93 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-39.80 dBm	-26.80 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88878 GHz	-46.64 dBm	-33.64 dB

Date: 15.MAY.2016 17:38:23

LTE Band 12 / 10MHz

Middle Channel / QPSK

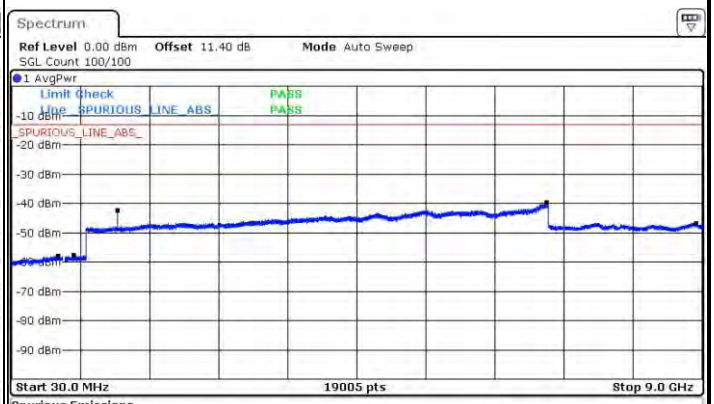


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	674.99250 MHz	-58.17 dBm	-45.17 dB
725.000 MHz	1.000 GHz	100.000 kHz	838.32418 MHz	-57.60 dBm	-44.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-41.59 dBm	-28.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97875 GHz	-40.02 dBm	-27.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88778 GHz	-46.65 dBm	-33.65 dB

Date: 15.MAY.2016 17:41:06

Middle Channel / 16QAM

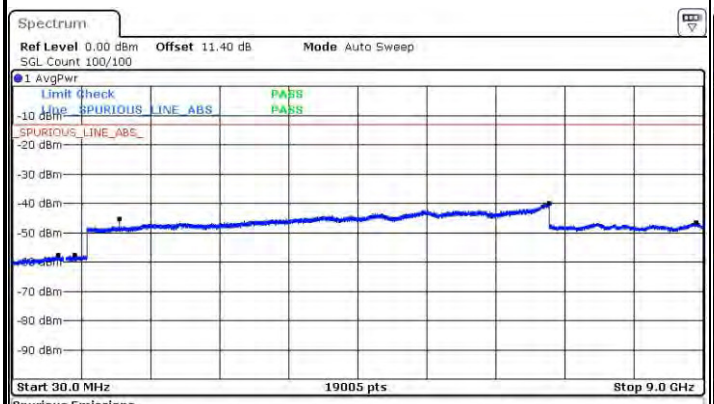


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	631.12444 MHz	-58.04 dBm	-45.04 dB
725.000 MHz	1.000 GHz	100.000 kHz	838.32418 MHz	-57.58 dBm	-44.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-42.25 dBm	-29.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98375 GHz	-39.69 dBm	-26.69 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92277 GHz	-46.77 dBm	-33.77 dB

Date: 15.MAY.2016 17:40:08

Highest Channel / QPSK

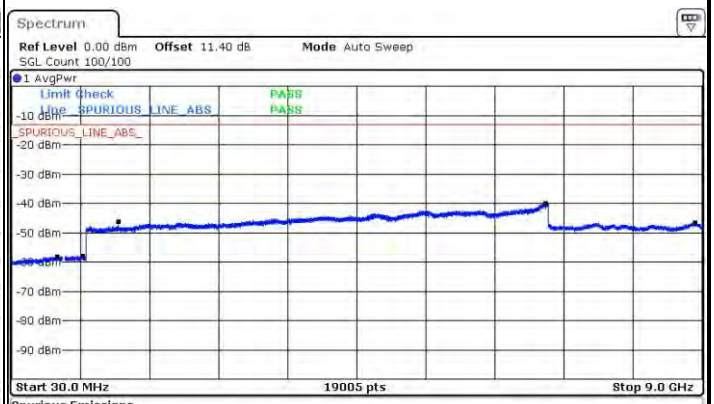


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.55922 MHz	-57.64 dBm	-44.64 dB
725.000 MHz	1.000 GHz	100.000 kHz	834.20330 MHz	-57.69 dBm	-44.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.27 dBm	-32.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99675 GHz	-39.87 dBm	-26.87 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.91177 GHz	-46.69 dBm	-33.69 dB

Date: 15.MAY.2016 17:51:01

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.55922 MHz	-58.13 dBm	-45.13 dB
725.000 MHz	1.000 GHz	100.000 kHz	950.96154 MHz	-58.03 dBm	-45.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.37 dBm	-33.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97125 GHz	-39.88 dBm	-26.88 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90727 GHz	-46.69 dBm	-33.69 dB

Date: 15.MAY.2016 17:51:39

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0030	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0114	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0122	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0112	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage = 4.0V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

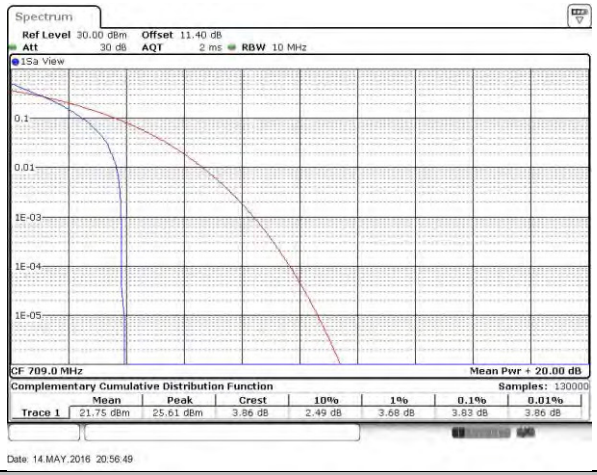
LTE Band 17

Peak-to-Average Ratio

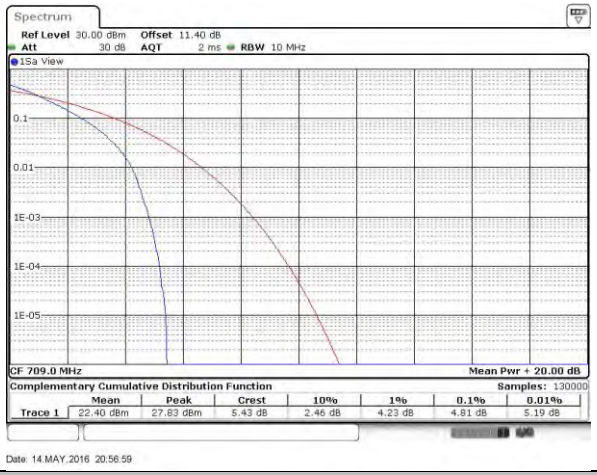
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.83	4.81	5.13	5.88	PASS
Middle CH	3.88	4.90	5.22	5.88	
Highest CH	4.14	4.67	5.74	5.68	

LTE Band 17 / 10MHz / QPSK

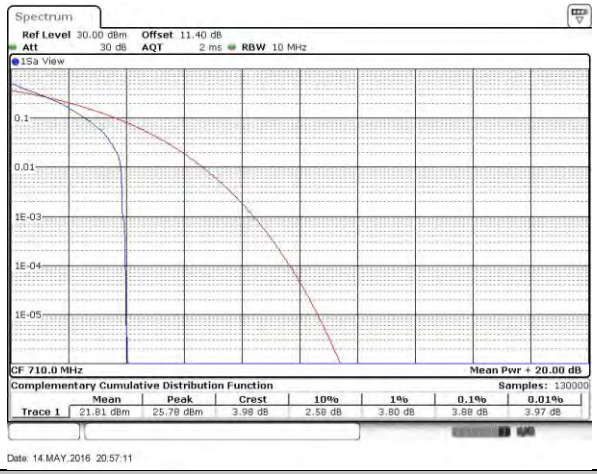
Lowest Channel / 1RB



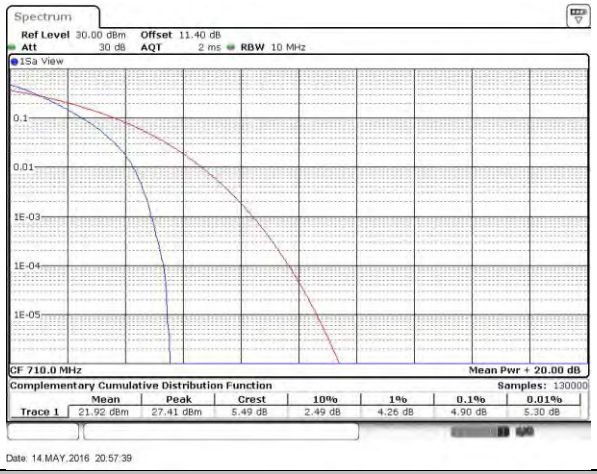
Lowest Channel / Full RB



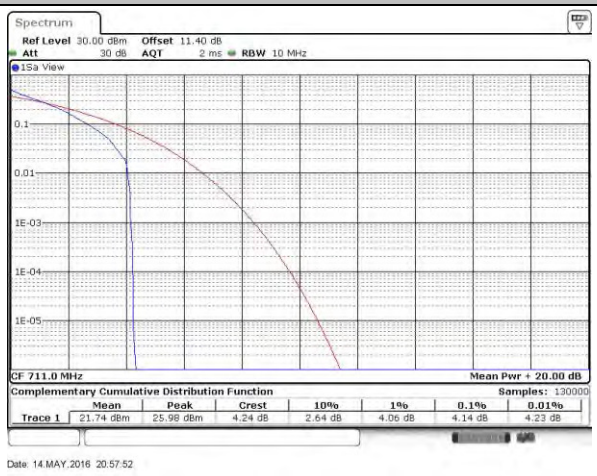
Middle Channel/ 1RB



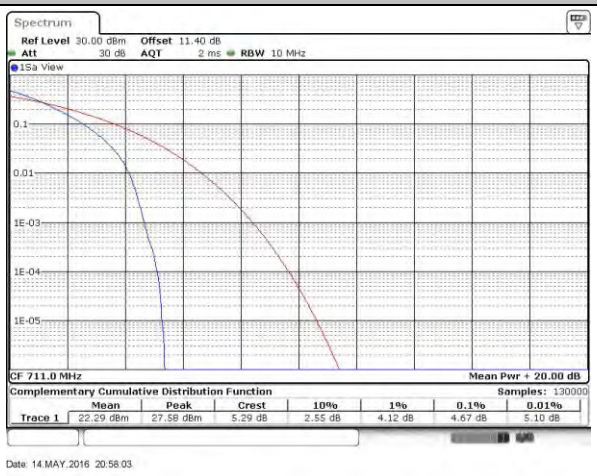
Middle Channel / Full RB



Highest Channel/ 1RB

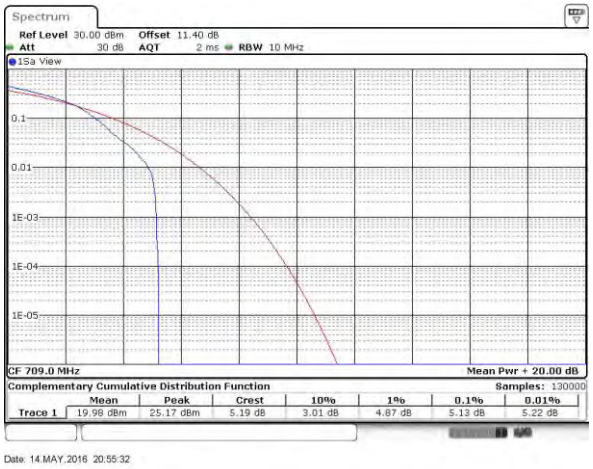


Highest Channel / Full RB



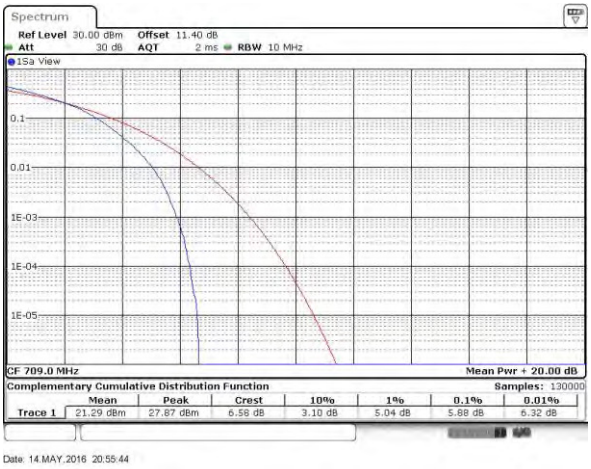
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



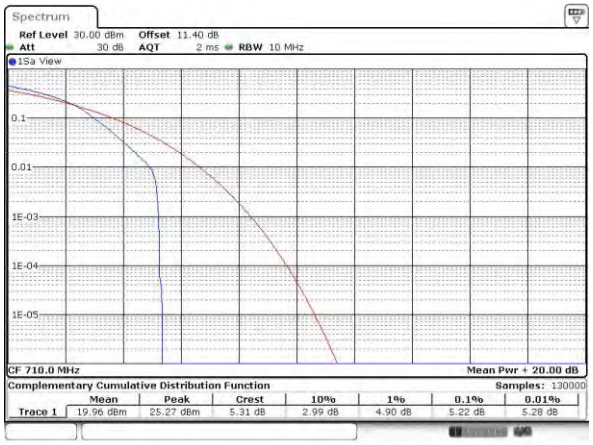
Date: 14.MAY.2016 20:55:32

Lowest Channel / Full RB



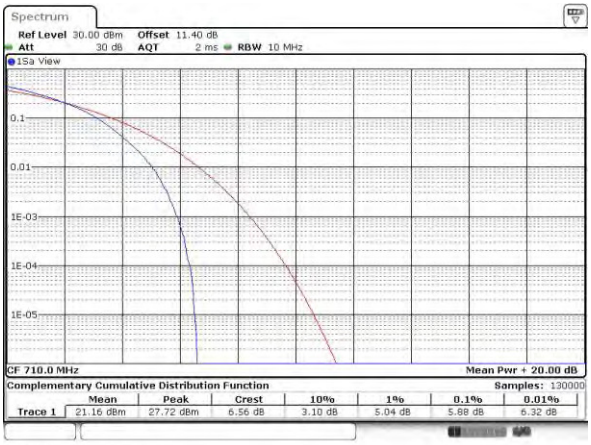
Date: 14.MAY.2016 20:55:44

Middle Channel/ 1RB



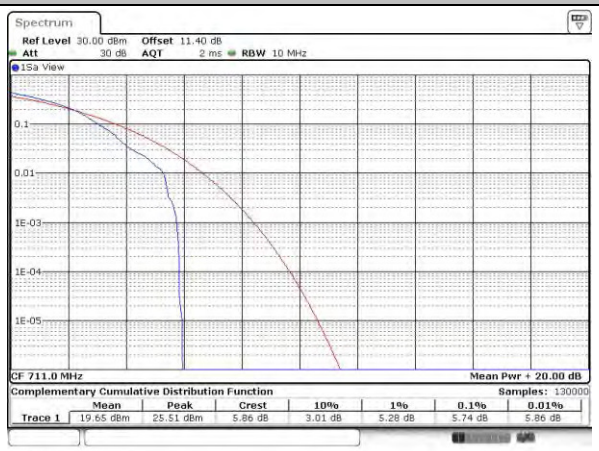
Date: 14.MAY.2016 20:55:54

Middle Channel / Full RB



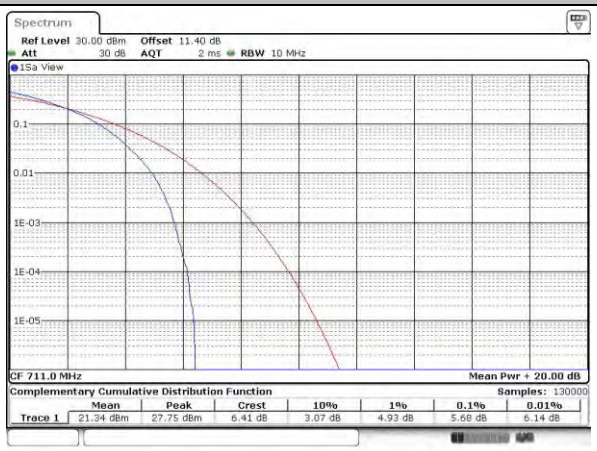
Date: 14.MAY.2016 20:56:15

Highest Channel/ 1RB



Date: 14.MAY.2016 20:58:45

Highest Channel / Full RB



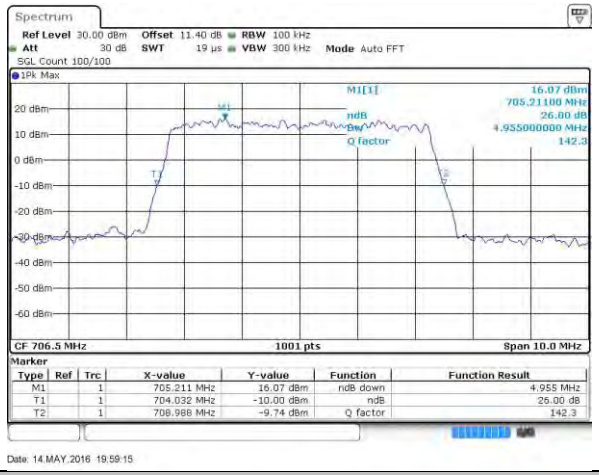
Date: 14.MAY.2016 20:56:37

26dB Bandwidth

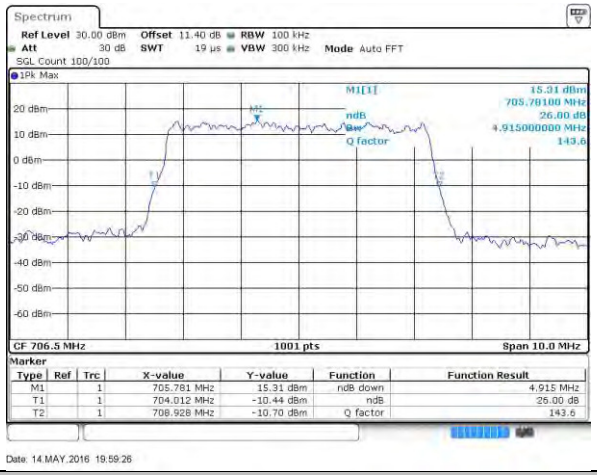
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.96	4.92	9.91	9.95	-	-	-	-
Middle CH	-	-	-	-	4.85	4.99	9.89	9.85	-	-	-	-
Highest CH	-	-	-	-	4.84	4.90	9.95	9.65	-	-	-	-

LTE Band 17

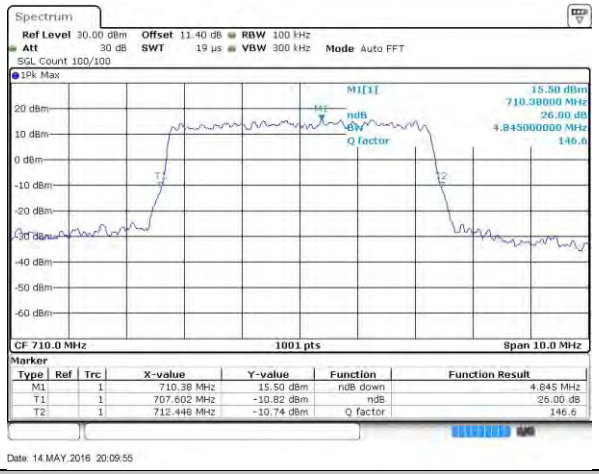
Lowest Channel / 5MHz / QPSK



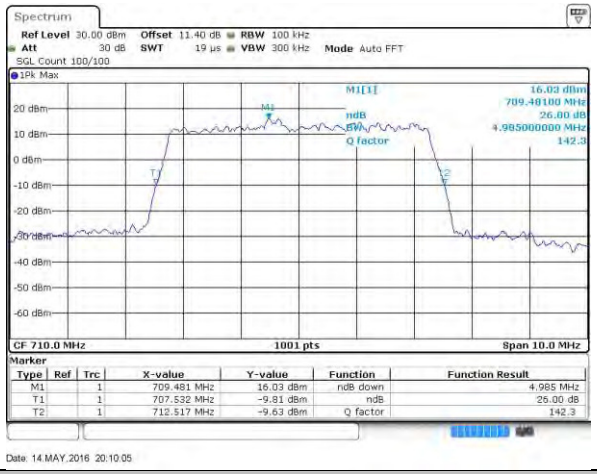
Lowest Channel / 5MHz / 16QAM



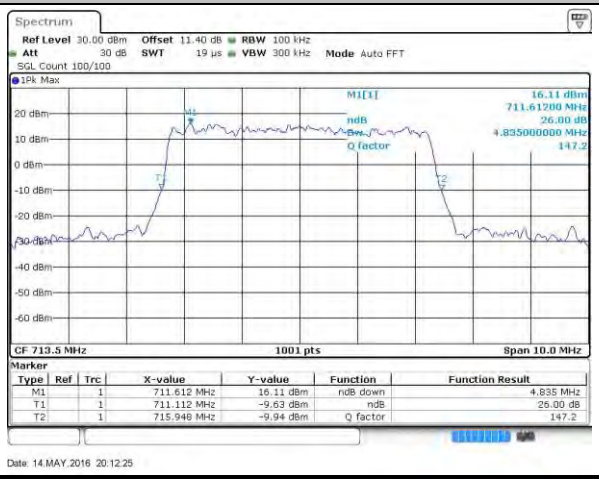
Middle Channel / 5MHz / QPSK



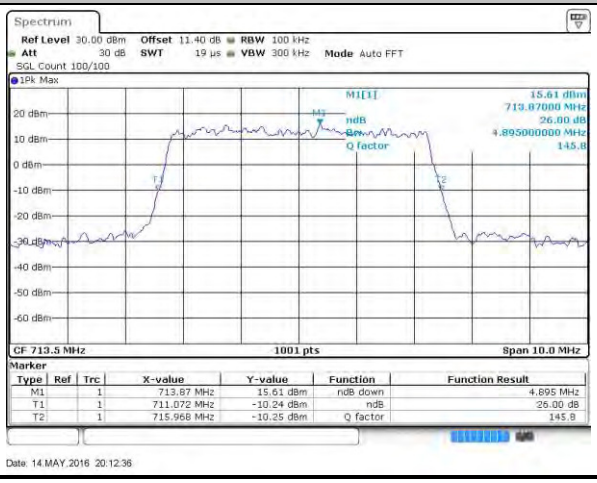
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

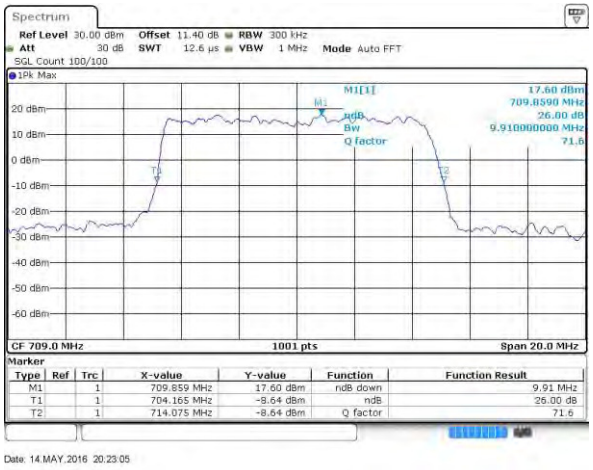


Highest Channel / 5MHz / 16QAM

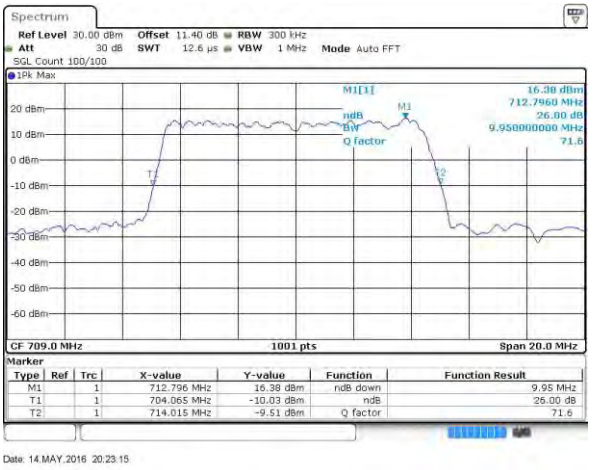


LTE Band 17

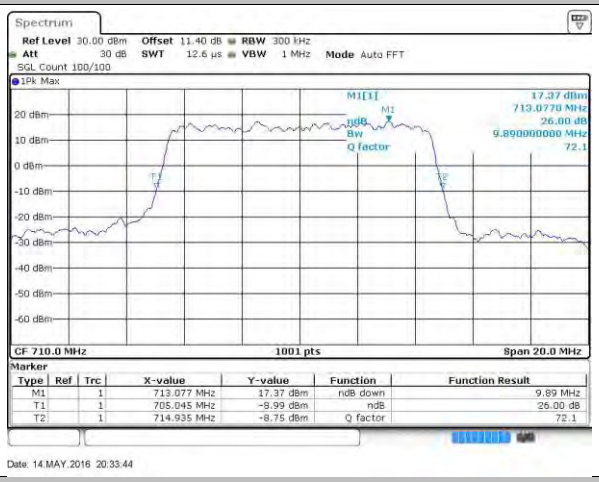
Lowest Channel / 10MHz / QPSK



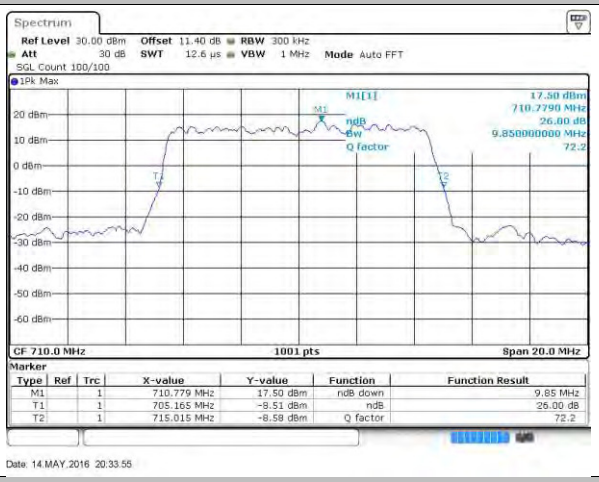
Lowest Channel / 10MHz / 16QAM



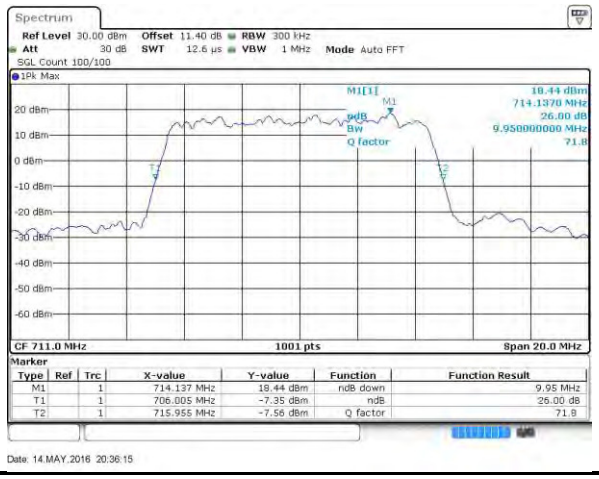
Middle Channel / 10MHz / QPSK



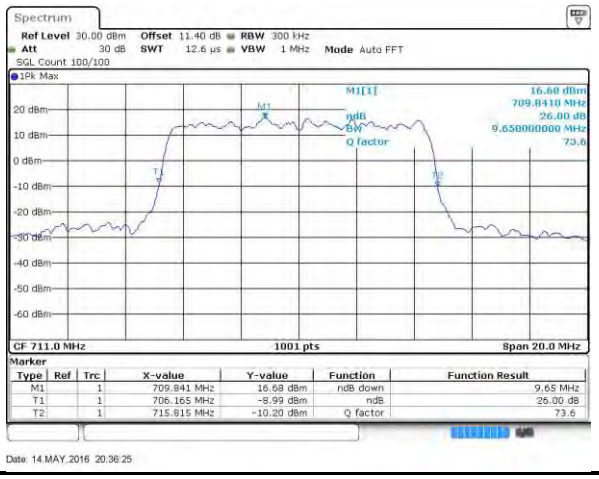
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

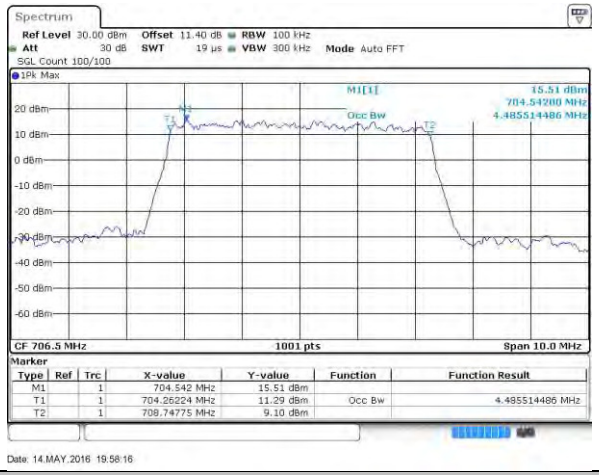


Occupied Bandwidth

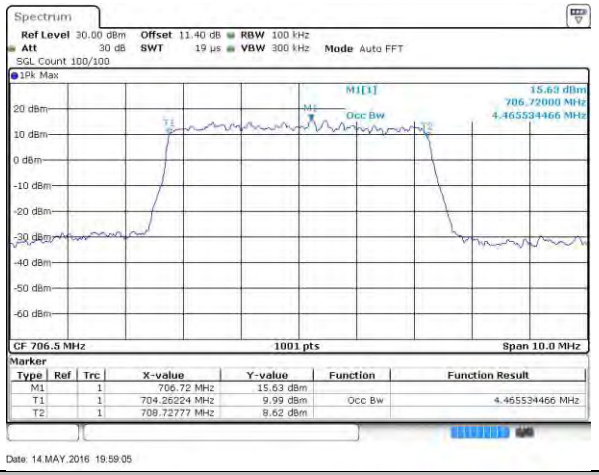
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.47	8.99	8.97	-	-	-	-
Middle CH	-	-	-	-	4.48	4.47	8.99	8.97	-	-	-	-
Highest CH	-	-	-	-	4.47	4.49	9.03	9.01	-	-	-	-

LTE Band 17

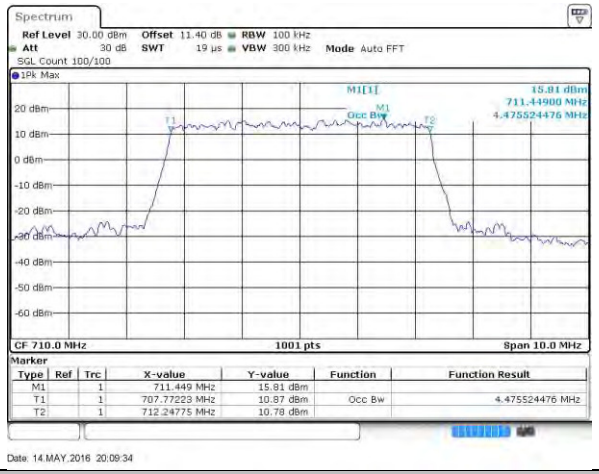
Lowest Channel / 5MHz / QPSK



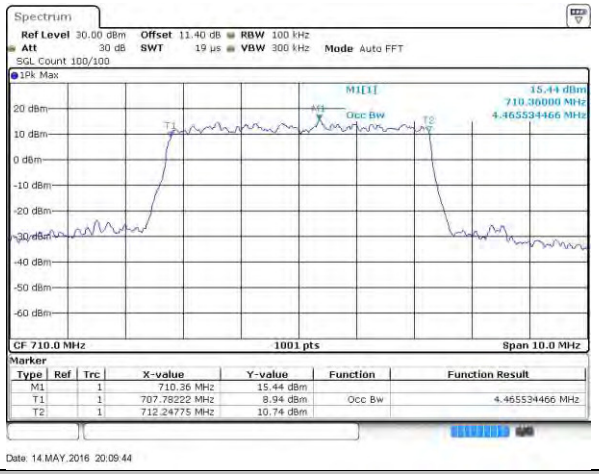
Lowest Channel / 5MHz / 16QAM



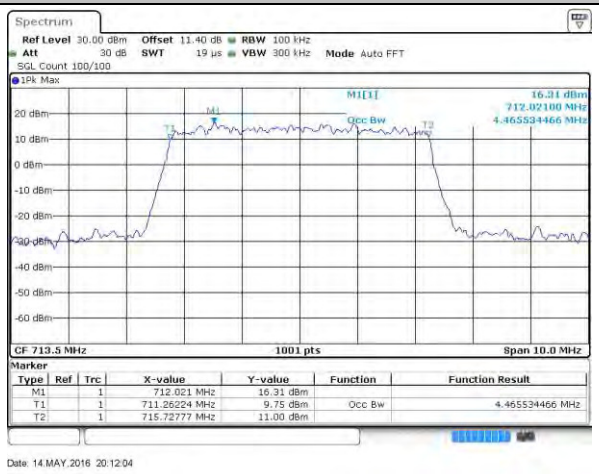
Middle Channel / 5MHz / QPSK



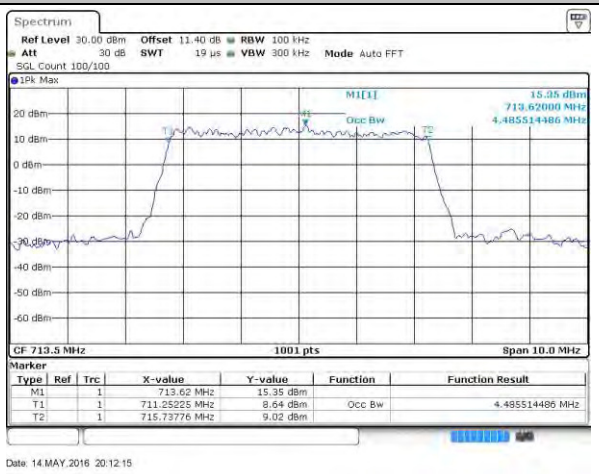
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

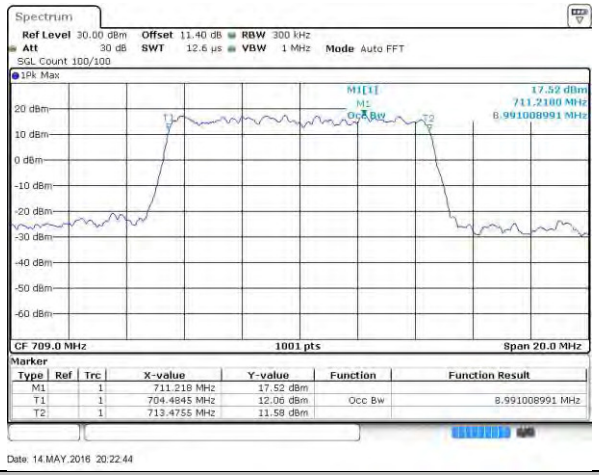


Highest Channel / 5MHz / 16QAM

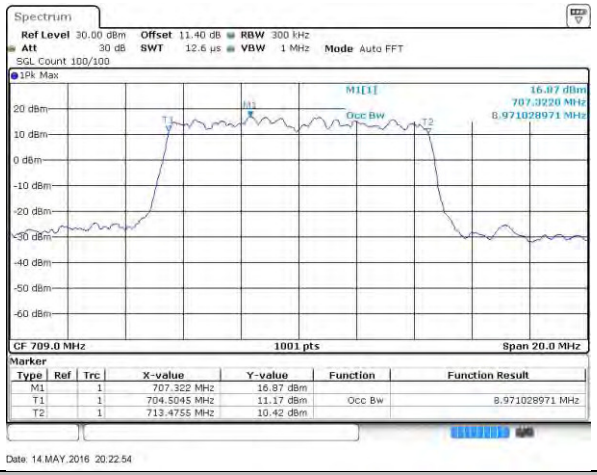


LTE Band 17

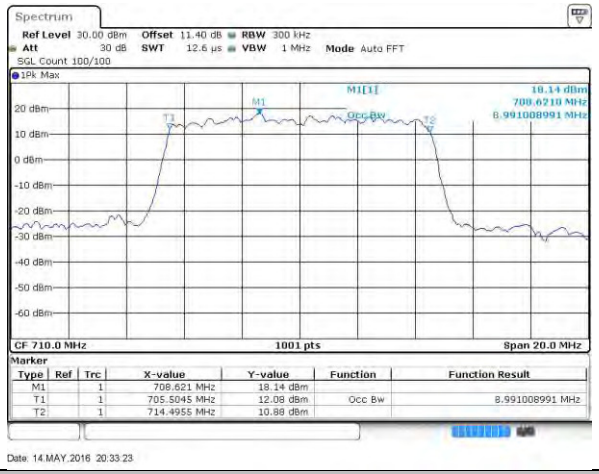
Lowest Channel / 10MHz / QPSK



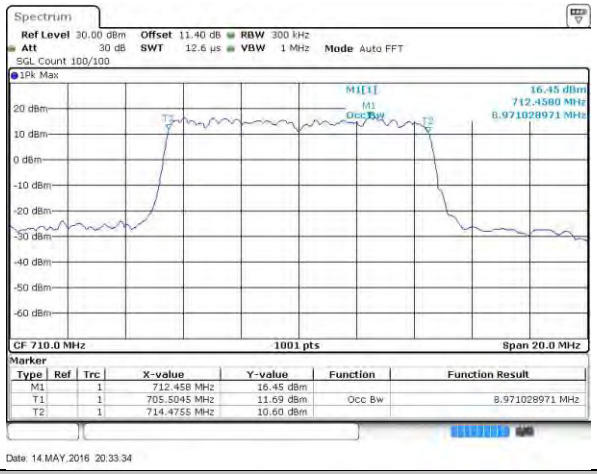
Lowest Channel / 10MHz / 16QAM



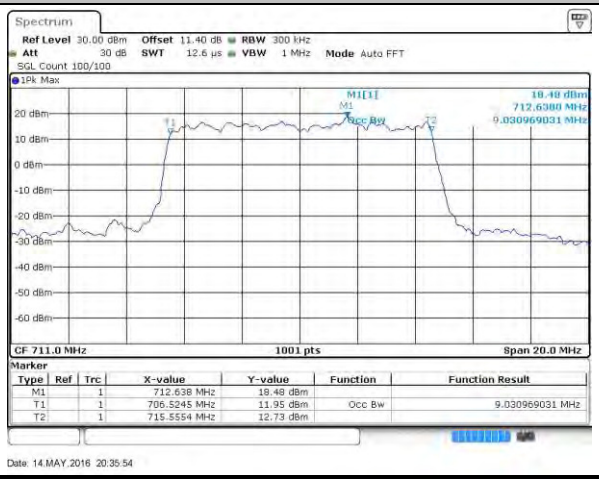
Middle Channel / 10MHz / QPSK



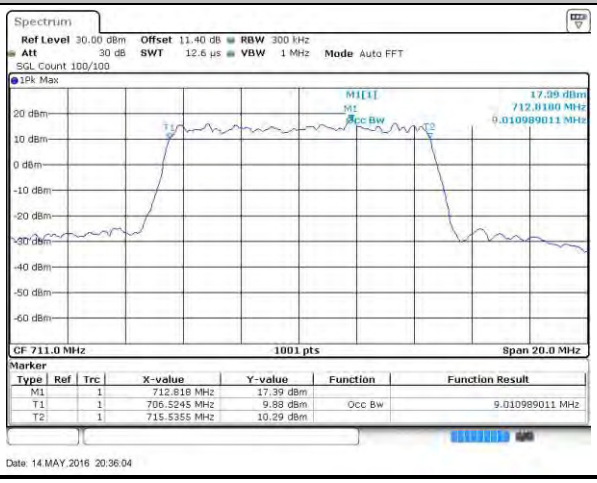
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



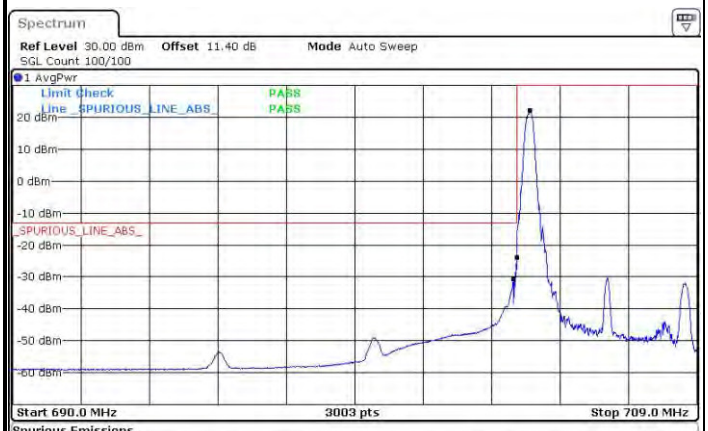
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

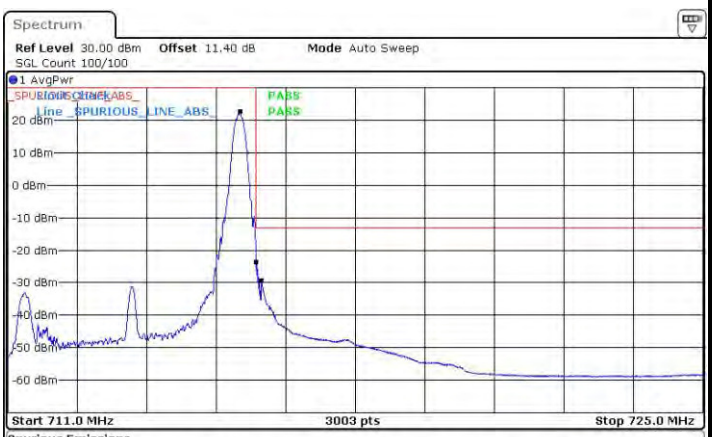


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-30.78 dBm	-17.78 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99895 MHz	-23.80 dBm	-10.80 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.35215 MHz	22.11 dBm	-7.89 dB

Date: 14.MAY.2016 20:01:28

Highest Band Edge / 1 RB

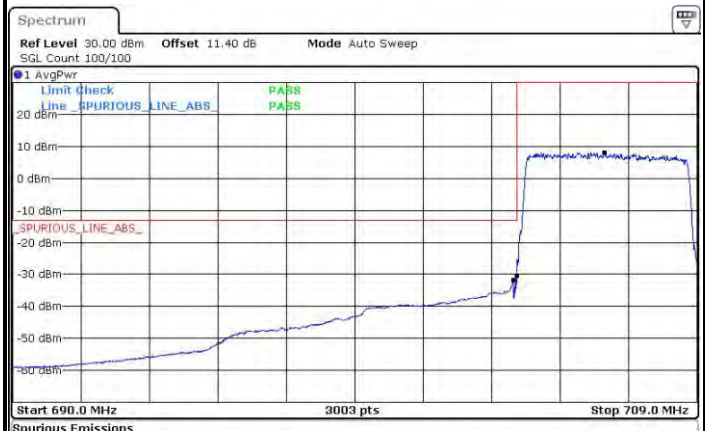


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.68282 MHz	22.74 dBm	-7.26 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00075 MHz	-23.77 dBm	-10.77 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.24 dBm	-16.24 dB

Date: 14.MAY.2016 20:14:38

Lowest Band Edge / Full RB

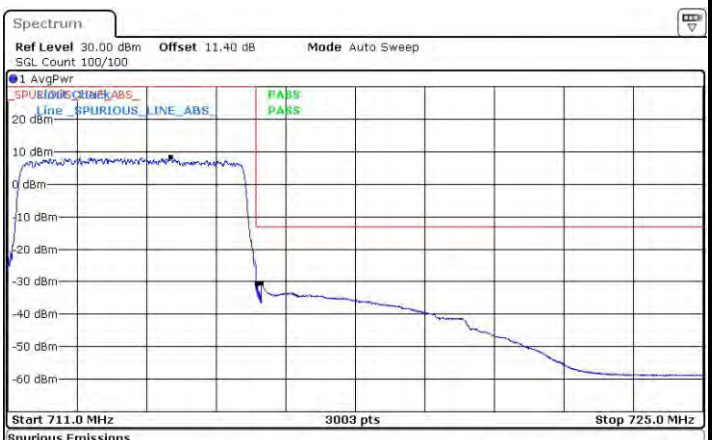


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-31.72 dBm	-18.72 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99975 MHz	-30.50 dBm	-17.50 dB
704.000 MHz	709.000 MHz	100.000 kHz	706.42008 MHz	8.03 dBm	-21.97 dB

Date: 14.MAY.2016 20:05:32

Highest Band Edge / Full RB



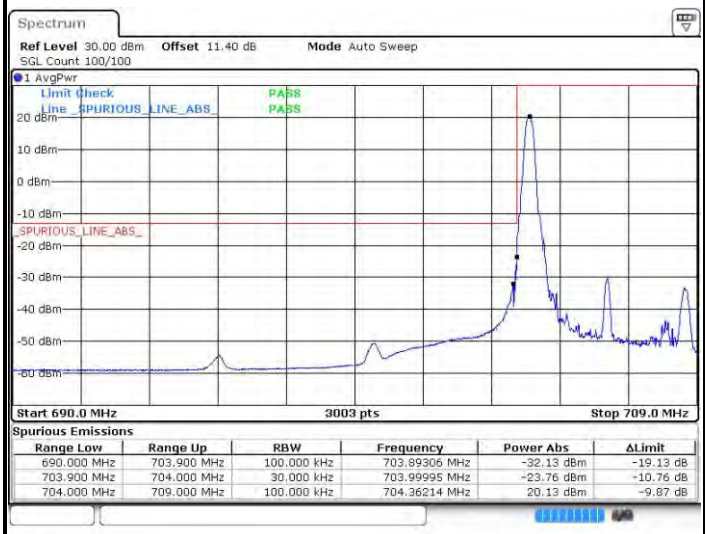
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	714.28422 MHz	8.26 dBm	-21.74 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01513 MHz	-30.64 dBm	-17.64 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.40 dBm	-17.40 dB

Date: 14.MAY.2016 20:18:42

LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

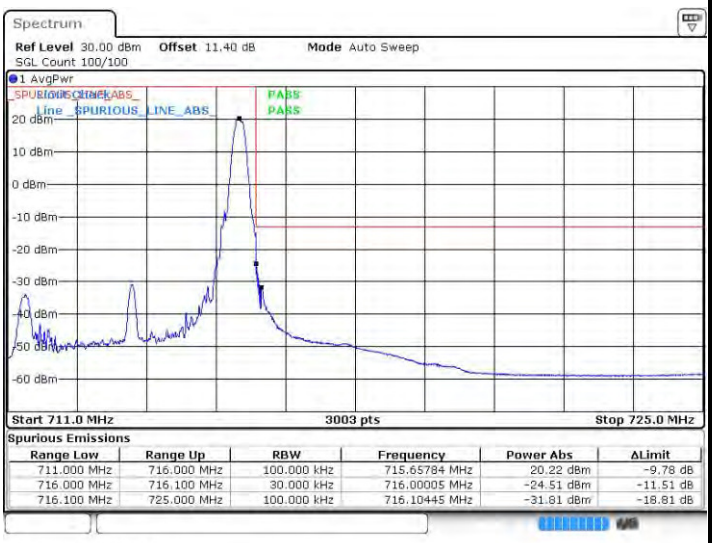


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.13 dBm	-19.13 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99995 MHz	-23.76 dBm	-10.76 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.36214 MHz	20.13 dBm	-9.87 dB

Date: 14.MAY.2016 20:03:30

Highest Band Edge / 1 RB

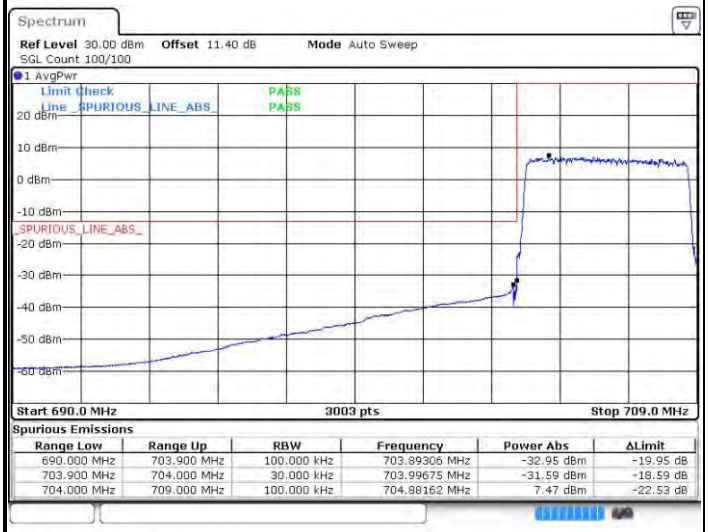


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.65784 MHz	20.22 dBm	-9.78 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-24.51 dBm	-11.51 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.81 dBm	-18.81 dB

Date: 14.MAY.2016 20:16:40

Lowest Band Edge / Full RB

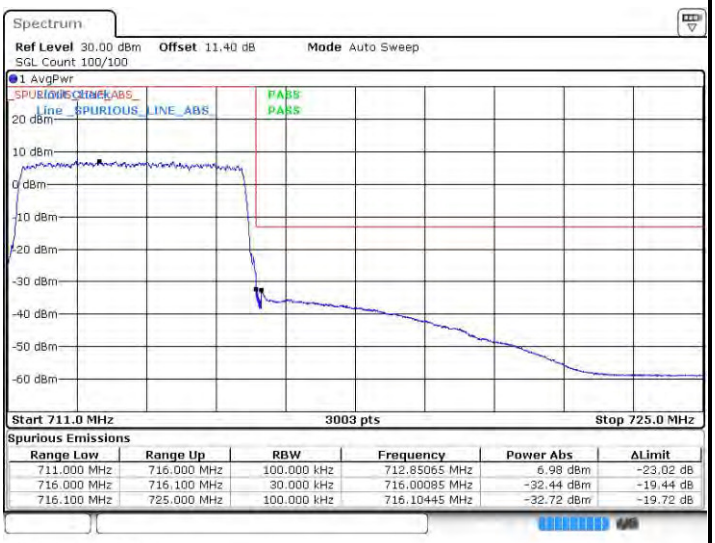


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.95 dBm	-19.95 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99675 MHz	-31.59 dBm	-18.59 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.88162 MHz	7.47 dBm	-22.53 dB

Date: 14.MAY.2016 20:07:34

Highest Band Edge / Full RB



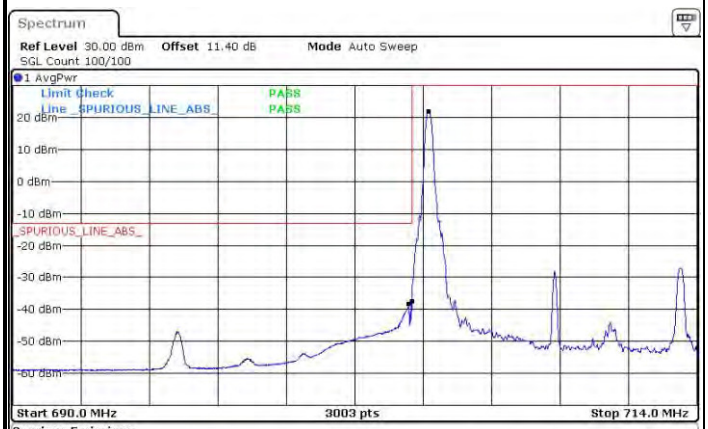
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.85065 MHz	6.98 dBm	-23.02 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-32.44 dBm	-19.44 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.72 dBm	-19.72 dB

Date: 14.MAY.2016 20:20:44

LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

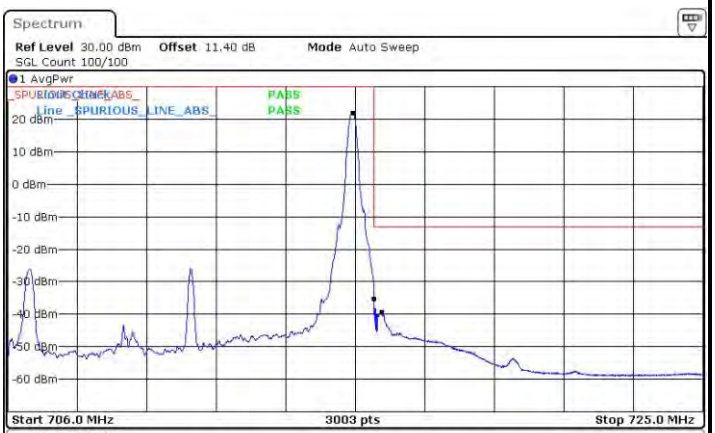


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-38.39 dBm	-25.39 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99675 MHz	-37.43 dBm	-24.43 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.57443 MHz	21.76 dBm	-8.24 dB

Date: 14.MAY.2016 20:25:17

Highest Band Edge / 1 RB

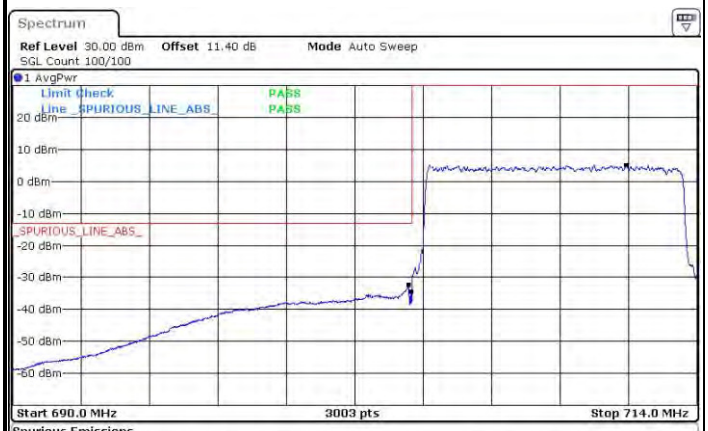


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.43556 MHz	21.81 dBm	-8.19 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00075 MHz	-35.22 dBm	-22.22 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.22003 MHz	-39.46 dBm	-26.46 dB

Date: 14.MAY.2016 20:38:27

Lowest Band Edge / Full RB

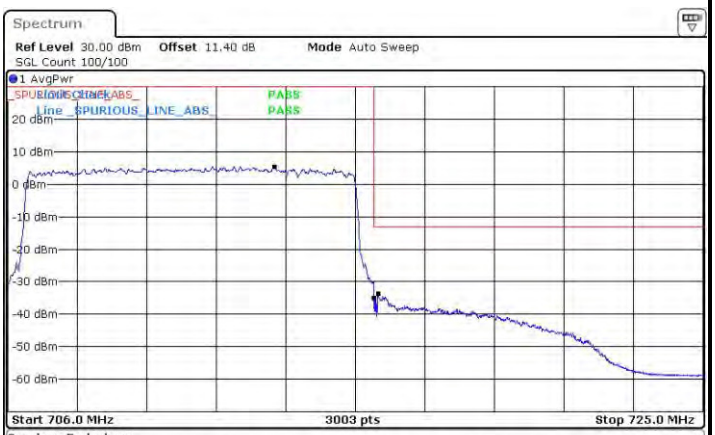


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.41 dBm	-19.41 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.98666 MHz	-34.49 dBm	-21.49 dB
704.000 MHz	714.000 MHz	100.000 kHz	711.50749 MHz	5.11 dBm	-24.89 dB

Date: 14.MAY.2016 20:29:22

Highest Band Edge / Full RB



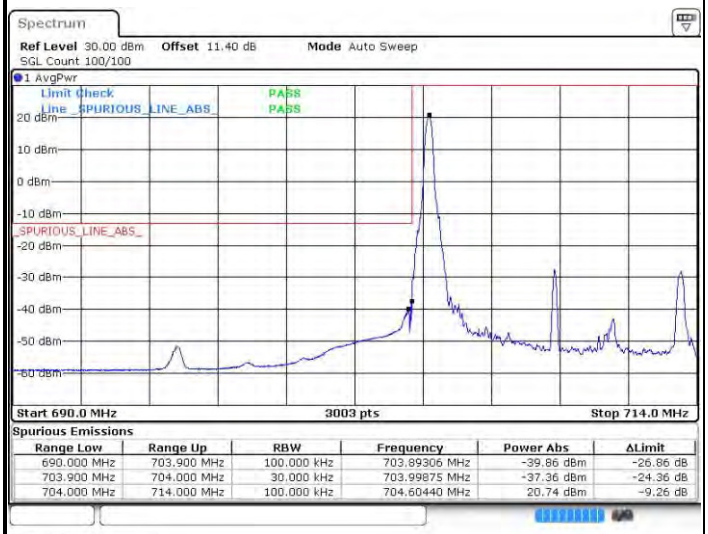
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	713.27772 MHz	5.46 dBm	-24.54 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00924 MHz	-34.98 dBm	-21.98 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-33.70 dBm	-20.70 dB

Date: 14.MAY.2016 20:42:32

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

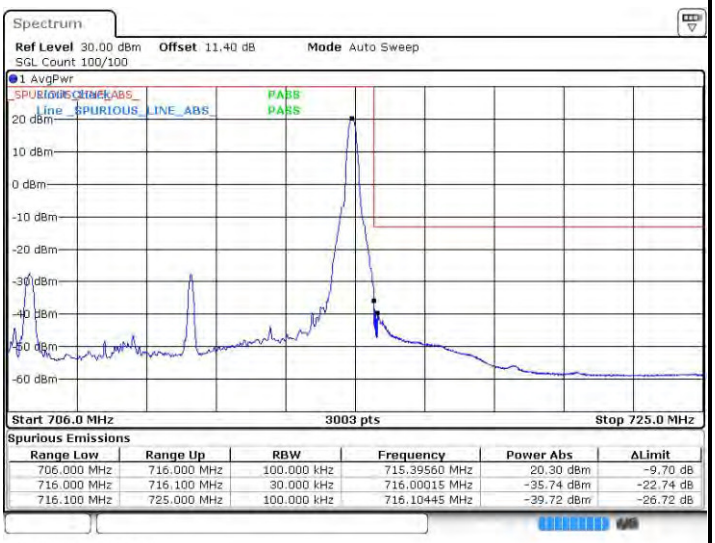


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-39.86 dBm	-26.86 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99875 MHz	-37.36 dBm	-24.36 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.60440 MHz	20.74 dBm	-9.26 dB

Date: 14.MAY.2016 20:27:19

Highest Band Edge / 1 RB

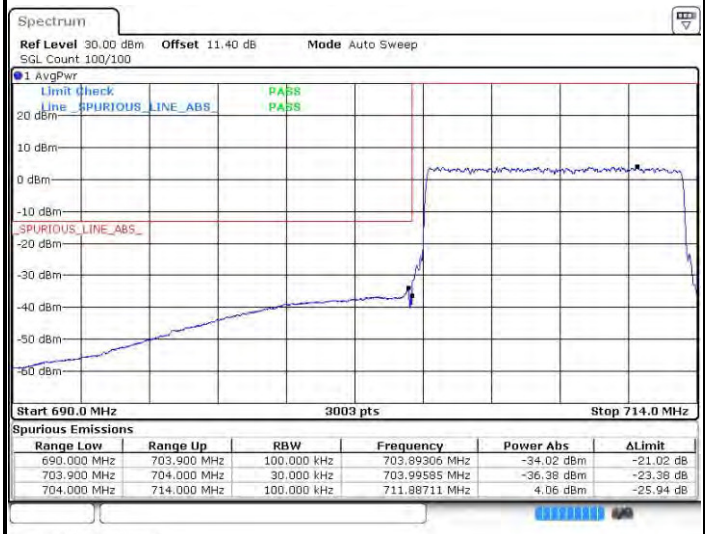


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	20.30 dBm	-9.70 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00015 MHz	-35.74 dBm	-22.74 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-39.72 dBm	-26.72 dB

Date: 14.MAY.2016 20:40:29

Lowest Band Edge / Full RB

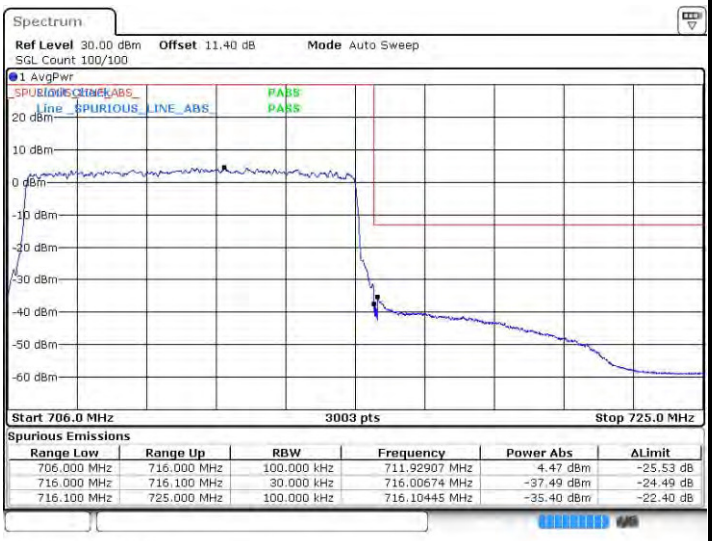


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-34.02 dBm	-21.02 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99585 MHz	-36.38 dBm	-23.38 dB
704.000 MHz	714.000 MHz	100.000 kHz	711.88711 MHz	4.06 dBm	-25.94 dB

Date: 14.MAY.2016 20:31:24

Highest Band Edge / Full RB



Spurious Emissions

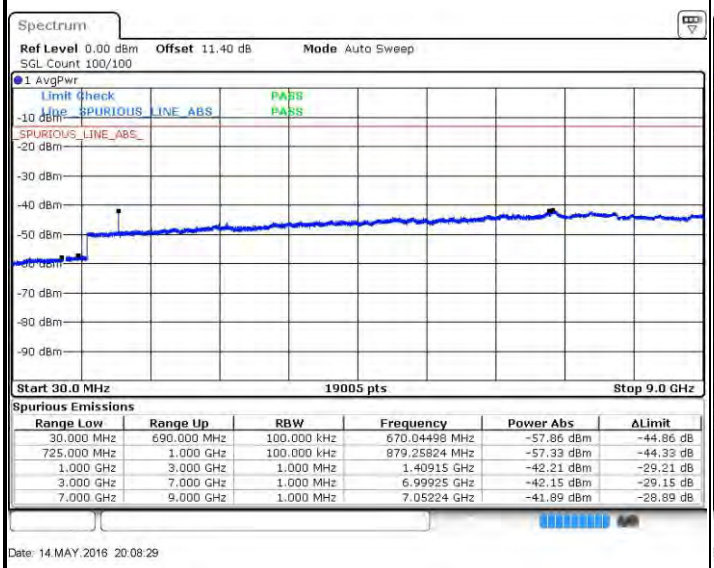
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.92907 MHz	4.47 dBm	-25.53 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00674 MHz	-37.49 dBm	-24.49 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.40 dBm	-22.40 dB

Date: 14.MAY.2016 20:44:34

Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

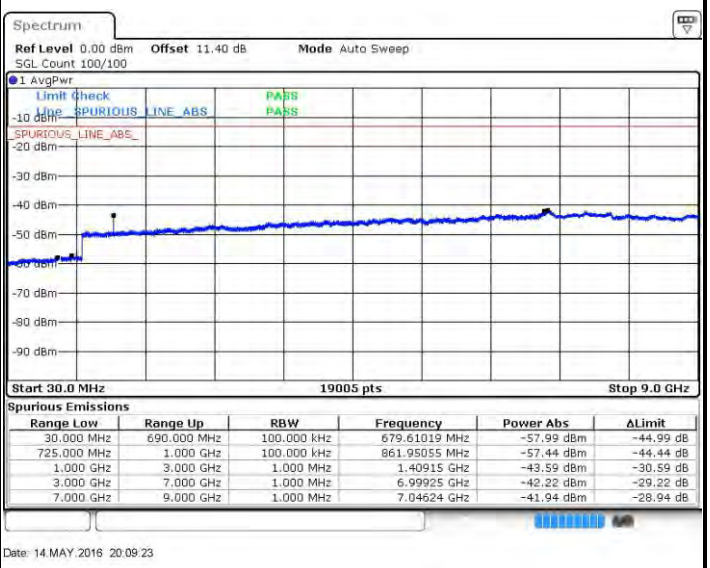


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	670.04498 MHz	-57.86 dBm	-44.86 dB
725.000 MHz	1.000 GHz	100.000 kHz	879.25824 MHz	-57.33 dBm	-44.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-42.21 dBm	-29.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-42.15 dBm	-29.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05224 GHz	-41.89 dBm	-28.89 dB

Date: 14.MAY.2016 20:08:29

Lowest Channel / 16QAM

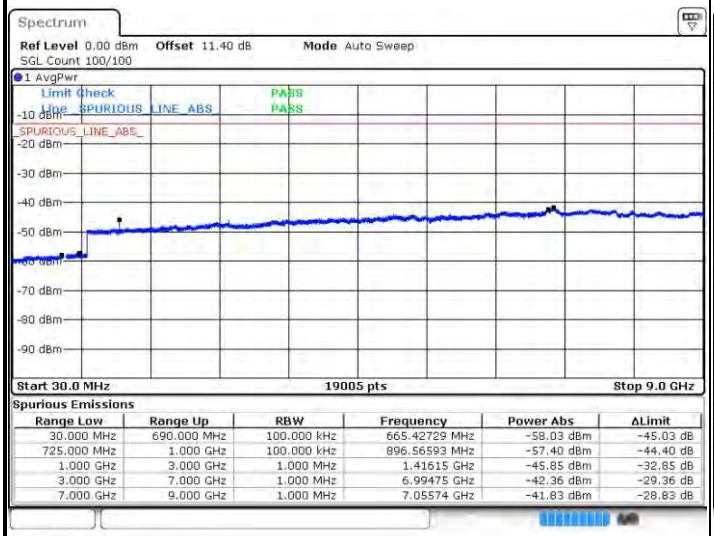


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	679.61019 MHz	-57.99 dBm	-44.99 dB
725.000 MHz	1.000 GHz	100.000 kHz	861.95055 MHz	-57.44 dBm	-44.44 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-43.59 dBm	-30.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-42.22 dBm	-29.22 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04624 GHz	-41.94 dBm	-28.94 dB

Date: 14.MAY.2016 20:09:23

Middle Channel / QPSK

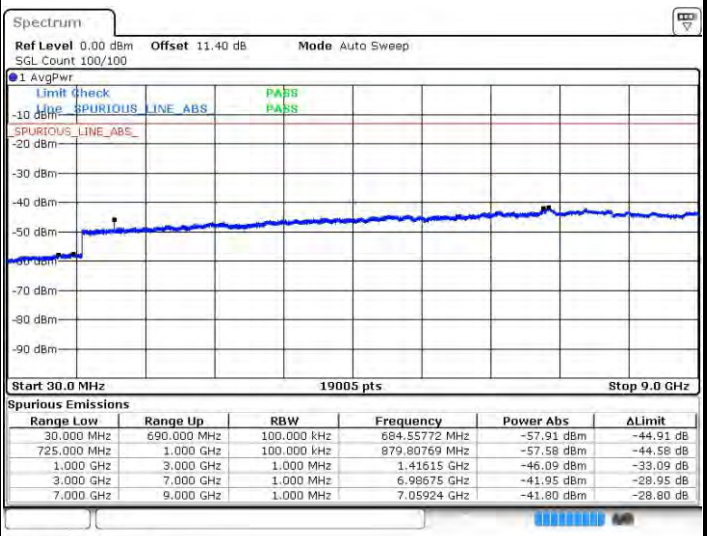


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	665.42729 MHz	-58.03 dBm	-45.03 dB
725.000 MHz	1.000 GHz	100.000 kHz	896.56593 MHz	-57.40 dBm	-44.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-45.85 dBm	-32.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99475 GHz	-42.36 dBm	-29.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05574 GHz	-41.83 dBm	-28.83 dB

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

Middle Channel / 16QAM



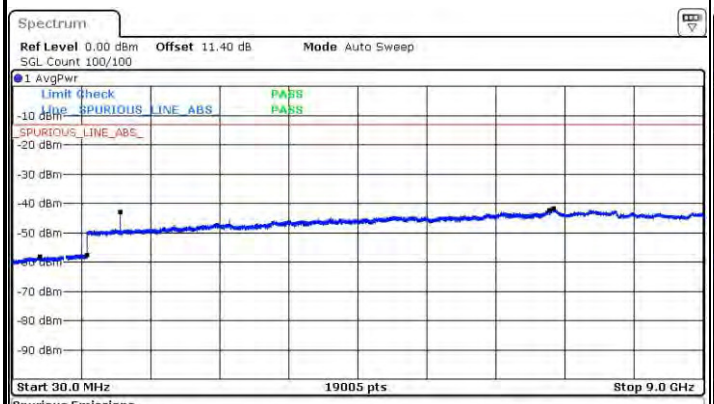
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	684.55772 MHz	-57.91 dBm	-44.91 dB
725.000 MHz	1.000 GHz	100.000 kHz	879.80769 MHz	-57.58 dBm	-44.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-46.09 dBm	-33.09 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-41.95 dBm	-28.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05924 GHz	-41.80 dBm	-28.80 dB

Date: 14.MAY.2016 20:11:54

LTE Band 17 / 5MHz

Highest Channel / QPSK

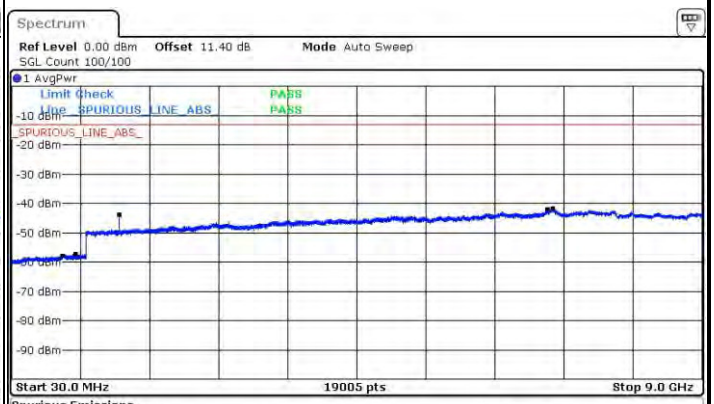


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	382.09895 MHz	-58.06 dBm	-45.06 dB
725.000 MHz	1.000 GHz	100.000 kHz	992.71978 MHz	-57.49 dBm	-44.49 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-43.06 dBm	-30.06 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99725 GHz	-42.26 dBm	-29.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05824 GHz	-41.83 dBm	-28.83 dB

Date: 14.MAY.2016 20:21:39

Highest Channel / 16QAM



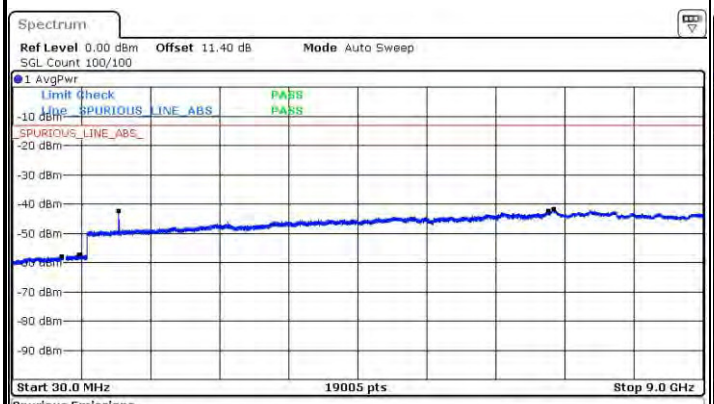
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.20690 MHz	-58.01 dBm	-45.01 dB
725.000 MHz	1.000 GHz	100.000 kHz	864.69780 MHz	-57.38 dBm	-44.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-43.76 dBm	-30.76 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-42.11 dBm	-29.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05574 GHz	-41.85 dBm	-28.85 dB

Date: 14.MAY.2016 20:22:33

LTE Band 17 / 10MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	669.71514 MHz	-57.87 dBm	-44.87 dB
725.000 MHz	1.000 GHz	100.000 kHz	898.48901 MHz	-57.36 dBm	-44.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40965 GHz	-42.42 dBm	-29.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-42.49 dBm	-29.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05324 GHz	-41.80 dBm	-28.80 dB

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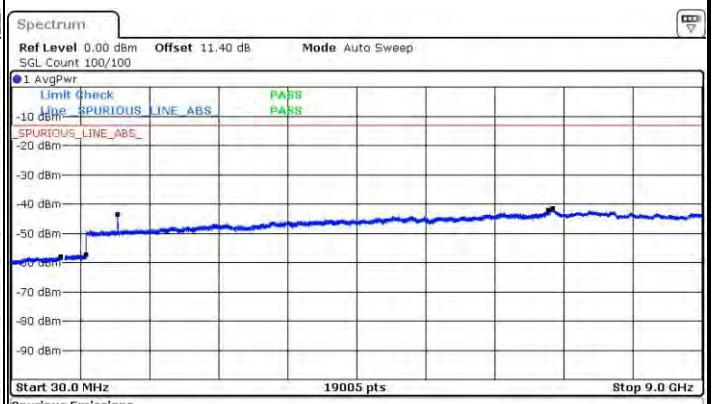
Lowest Channel / 16QAM



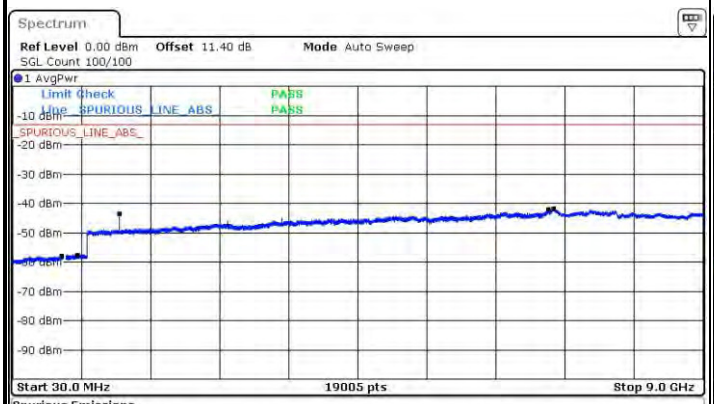
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	660.47976 MHz	-58.05 dBm	-45.05 dB
725.000 MHz	1.000 GHz	100.000 kHz	998.21429 MHz	-57.37 dBm	-44.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40965 GHz	-43.72 dBm	-30.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-42.20 dBm	-29.20 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05274 GHz	-41.60 dBm	-28.60 dB

Date: 14.MAY.2016 20:33:13

LTE Band 17 / 10MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	666.74663 MHz	-57.94 dBm	-44.94 dB
725.000 MHz	1.000 GHz	100.000 kHz	869.09341 MHz	-57.57 dBm	-44.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-43.68 dBm	-30.68 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-42.15 dBm	-29.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05974 GHz	-41.81 dBm	-28.81 dB

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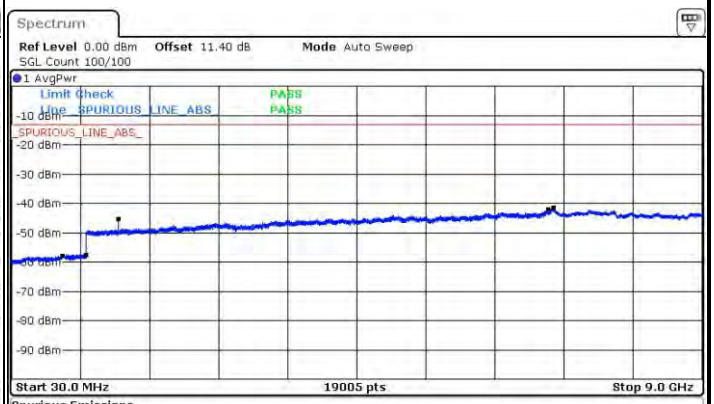
Middle Channel / 16QAM

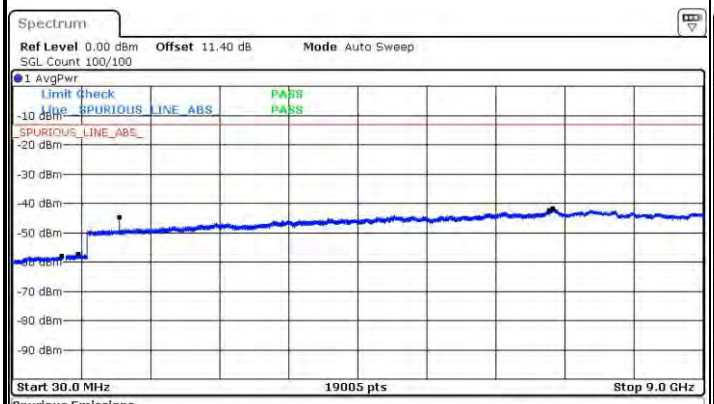


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.85607 MHz	-57.83 dBm	-44.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-57.47 dBm	-44.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-45.30 dBm	-32.30 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99825 GHz	-42.19 dBm	-29.19 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06623 GHz	-41.63 dBm	-28.63 dB

Date: 14.MAY.2016 20:35:43

Highest Channel / QPSK

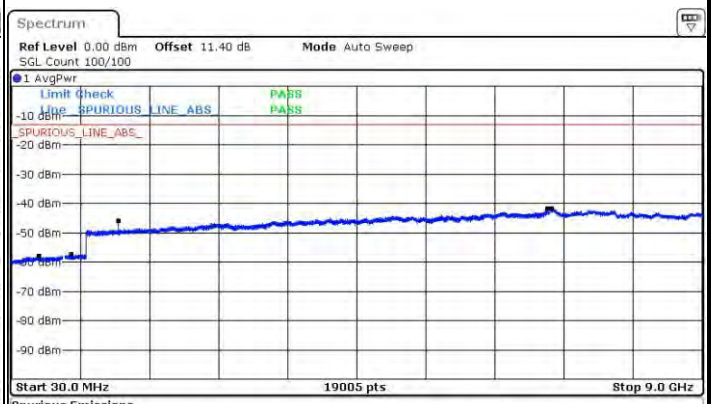


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	671.36432 MHz	-58.04 dBm	-45.04 dB
725.000 MHz	1.000 GHz	100.000 kHz	880.35714 MHz	-57.30 dBm	-44.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.69 dBm	-31.69 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-42.27 dBm	-29.27 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04974 GHz	-41.78 dBm	-28.78 dB

Date: 14.MAY.2016 20:45:29

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	380.44978 MHz	-57.98 dBm	-44.98 dB
725.000 MHz	1.000 GHz	100.000 kHz	800.68681 MHz	-57.45 dBm	-44.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.06 dBm	-33.06 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99375 GHz	-41.85 dBm	-28.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05224 GHz	-41.73 dBm	-28.73 dB

Date: 14.MAY.2016 20:46:23

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0115	PASS
40	Normal Voltage	0.0090	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0124	
-20	Normal Voltage	0.0125	
-30	Normal Voltage	0.0124	
20	Maximum Voltage	0.0104	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage = 4.0V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

ERP/ERIP

LTE Band 2 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	18.63	0.0729	19.03	0.0800
Middle		3	1	18.95	0.0785	19.39	0.0869
Highest		3	1	17.99	0.0630	19.89	0.0975
Lowest	16QAM	3	3	17.47	0.0558	18.01	0.0632
Middle		3	3	18.00	0.0631	18.39	0.0690
Highest		3	3	18.52	0.0711	18.98	0.0791
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	18.73	0.0746	19.40	0.0871
Middle		1	8	19.01	0.0796	19.40	0.0871
Highest		1	8	19.36	0.0863	20.10	0.1023
Lowest	16QAM	1	8	17.75	0.0596	18.29	0.0675
Middle		1	8	17.97	0.0627	18.26	0.0670
Highest		1	8	18.36	0.0685	18.88	0.0773
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	19.04	0.0802	19.72	0.0938
Middle		1	12	19.57	0.0906	19.80	0.0955
Highest		1	12	19.51	0.0893	20.22	0.1052
Lowest	16QAM	1	12	18.15	0.0653	18.78	0.0755
Middle		1	12	19.57	0.0906	19.80	0.0955
Highest		1	12	18.74	0.0748	19.33	0.0857
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	19.07	0.0807	19.61	0.0914
Middle		1	25	19.29	0.0849	19.60	0.0912
Highest		1	25	19.54	0.0899	19.95	0.0989
Lowest	16QAM	1	25	17.88	0.0614	18.18	0.0658
Middle		1	25	18.17	0.0656	18.65	0.0733
Highest		1	25	18.14	0.0652	18.92	0.0780
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	19.10	0.0813	19.69	0.0931
Middle		1	37	19.38	0.0867	19.74	0.0942
Highest		1	37	19.41	0.0873	19.96	0.0991
Lowest	16QAM	1	37	18.45	0.0700	19.06	0.0805
Middle		1	37	18.61	0.0726	18.89	0.0774
Highest		1	37	18.68	0.0738	19.23	0.0838
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	19.28	0.0847	19.76	0.0946
Middle		1	49	19.42	0.0875	19.68	0.0929
Highest		1	49	19.44	0.0879	20.12	0.1028
Lowest	16QAM	1	49	17.44	0.0555	18.09	0.0644
Middle		1	49	18.38	0.0689	18.64	0.0731
Highest		1	49	18.60	0.0724	18.91	0.0778
Limit	EIRP < 2W			Result		PASS	

LTE Band 4 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	0	19.08	0.0809	19.03	0.0800
Middle		3	0	19.80	0.0955	19.81	0.0957
Highest		3	0	20.26	0.1062	19.70	0.0933
Lowest	16QAM	3	0	17.93	0.0621	18.08	0.0643
Middle		3	0	18.97	0.0789	19.16	0.0824
Highest		3	0	19.38	0.0867	18.80	0.0759
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	19.14	0.0820	19.76	0.0946
Middle		1	8	19.94	0.0986	20.12	0.1028
Highest		1	8	20.22	0.1052	19.62	0.0916
Lowest	16QAM	1	14	18.07	0.0641	18.30	0.0676
Middle		1	14	18.58	0.0721	19.14	0.0820
Highest		1	14	19.18	0.0828	18.66	0.0735
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	19.59	0.0910	19.48	0.0887
Middle		1	12	20.45	0.1109	20.71	0.1178
Highest		1	12	20.29	0.1069	19.94	0.0986
Lowest	16QAM	1	24	18.27	0.0671	18.72	0.0745
Middle		1	24	18.85	0.0767	19.38	0.0867
Highest		1	24	19.01	0.0796	18.93	0.0782
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	19.52	0.0895	19.89	0.0975
Middle		1	25	19.92	0.0982	20.16	0.1038
Highest		1	25	19.73	0.0940	19.65	0.0923
Lowest	16QAM	1	0	18.58	0.0721	18.74	0.0748
Middle		1	0	18.65	0.0733	18.91	0.0778
Highest		1	0	18.66	0.0735	19.35	0.0861
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	19.82	0.0959	20.61	0.1151
Middle		1	37	20.46	0.1112	20.35	0.1084
Highest		1	37	19.96	0.0991	20.03	0.1007
Lowest	16QAM	1	74	18.98	0.0791	19.98	0.0995
Middle		1	74	18.66	0.0735	18.79	0.0757
Highest		1	74	19.05	0.0804	18.70	0.0741
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	19.93	0.0984	20.31	0.1074
Middle		1	49	20.11	0.1026	20.24	0.1057
Highest		1	49	20.38	0.1091	20.31	0.1074
Lowest	16QAM	1	49	18.97	0.0789	19.33	0.0857
Middle		1	49	18.88	0.0773	19.05	0.0804
Highest		1	49	19.58	0.0908	19.45	0.0881
Limit	EIRP < 1W			Result		PASS	

LTE Band 5 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	16.70	0.0468	20.62	0.1153
Middle		3	1	17.29	0.0536	20.30	0.1072
Highest		3	1	17.03	0.0505	19.11	0.0815
Lowest	16QAM	1	3	15.93	0.0392	19.82	0.0959
Middle		1	3	15.99	0.0397	19.30	0.0851
Highest		1	3	15.98	0.0396	17.99	0.0630
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	16.89	0.0489	20.62	0.1153
Middle		1	8	17.37	0.0546	20.24	0.1057
Highest		1	8	16.76	0.0474	19.00	0.0794
Lowest	16QAM	1	8	15.83	0.0383	17.96	0.0625
Middle		1	8	16.19	0.0416	18.83	0.0764
Highest		1	8	15.97	0.0395	18.06	0.0640
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	17.12	0.0515	20.75	0.1189
Middle		1	12	17.22	0.0527	20.22	0.1052
Highest		1	12	17.08	0.0511	19.25	0.0841
Lowest	16QAM	1	12	16.04	0.0402	19.96	0.0991
Middle		1	12	16.55	0.0452	19.45	0.0881
Highest		1	12	16.14	0.0411	18.30	0.0676
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	17.03	0.0505	20.56	0.1138
Middle		1	25	17.13	0.0516	20.15	0.1035
Highest		1	25	17.08	0.0511	19.50	0.0891
Lowest	16QAM	1	25	16.13	0.0410	19.62	0.0916
Middle		1	25	16.26	0.0423	19.16	0.0824
Highest		1	25	16.11	0.0408	18.51	0.0710
Limit	ERP < 7W			Result		PASS	

LTE Band 7 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	16.66	0.0463	19.87	0.0971
Middle		1	12	15.61	0.0364	19.95	0.0989
Highest		1	12	16.11	0.0408	21.90	0.1549
Lowest	16QAM	1	12	16.00	0.0398	19.21	0.0834
Middle		1	12	14.73	0.0297	19.07	0.0807
Highest		1	12	15.46	0.0352	21.07	0.1279
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	16.67	0.0465	19.97	0.0993
Middle		1	25	15.76	0.0377	20.02	0.1005
Highest		1	25	16.13	0.0410	21.98	0.1578
Lowest	16QAM	1	25	15.62	0.0365	18.98	0.0791
Middle		1	25	14.65	0.0292	18.99	0.0793
Highest		1	25	14.94	0.0312	20.84	0.1213
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	16.87	0.0486	20.27	0.1064
Middle		1	37	15.84	0.0384	20.15	0.1035
Highest		1	37	16.36	0.0433	21.92	0.1556
Lowest	16QAM	1	0	15.04	0.0319	18.02	0.0634
Middle		1	0	14.51	0.0282	18.39	0.0690
Highest		1	0	15.21	0.0332	20.13	0.1030
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	17.28	0.0535	19.45	0.0881
Middle		1	49	16.75	0.0473	20.83	0.1211
Highest		1	49	16.34	0.0431	21.36	0.1368
Lowest	16QAM	1	49	15.97	0.0395	18.42	0.0695
Middle		1	49	15.53	0.0357	19.69	0.0931
Highest		1	49	15.38	0.0345	20.54	0.1132
Limit	EIRP < 2W			Result		PASS	

LTE Band 12 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	8.26	0.0067	17.63	0.0579
Middle		3	0	8.97	0.0079	17.94	0.0622
Highest		3	0	9.06	0.0081	17.99	0.0630
Lowest	16QAM	1	3	7.31	0.0054	16.96	0.0497
Middle		1	3	7.93	0.0062	17.26	0.0532
Highest		1	3	7.59	0.0057	16.91	0.0491
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	8.62	0.0073	17.48	0.0560
Middle		1	8	8.75	0.0075	17.58	0.0573
Highest		1	8	9.25	0.0084	17.92	0.0619
Lowest	16QAM	1	0	7.12	0.0052	16.15	0.0412
Middle		1	0	7.96	0.0063	16.46	0.0443
Highest		1	0	8.11	0.0065	16.65	0.0462
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	8.96	0.0079	17.62	0.0578
Middle		1	12	9.16	0.0082	17.82	0.0605
Highest		1	12	9.76	0.0095	18.20	0.0661
Lowest	16QAM	1	24	8.23	0.0067	16.81	0.0480
Middle		1	24	8.57	0.0072	17.27	0.0533
Highest		1	24	8.78	0.0076	17.29	0.0536
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	8.80	0.0076	17.95	0.0624
Middle		1	25	8.36	0.0069	18.22	0.0664
Highest		1	25	9.06	0.0081	17.92	0.0619
Lowest	16QAM	1	25	8.22	0.0066	17.23	0.0528
Middle		1	25	7.65	0.0058	17.37	0.0546
Highest		1	25	8.52	0.0071	16.91	0.0491
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	8.89	0.0077	17.85	0.0610
Middle		1	12	8.89	0.0077	17.85	0.0610
Highest		1	12	9.71	0.0094	18.20	0.0661
Lowest	16QAM	1	24	9.71	0.0094	18.15	0.0653
Middle		1	24	7.58	0.0057	16.89	0.0489
Highest		1	24	9.07	0.0081	17.59	0.0574
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	9.32	0.0086	17.99	0.0630
Middle		1	25	8.79	0.0076	18.02	0.0634
Highest		1	25	9.53	0.0090	17.84	0.0608
Lowest	16QAM	1	25	8.15	0.0065	17.06	0.0508
Middle		1	25	8.00	0.0063	17.29	0.0536
Highest		1	25	8.56	0.0072	16.95	0.0495
Limit	ERP < 3W			Result		PASS	

Radiated Spurious Emission

LTE Band 2

LTE Band 2 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-42.78	-13	-29.78	-36.59	-49.35	1.67	8.24	H
	5548	-39.82	-13	-26.82	-40.39	-46.89	2.65	9.72	H
	7403	-40.22	-13	-27.22	-46.2	-49.37	2.46	11.61	H
	9251	-48.21	-13	-35.21	-58.19	-58.27	2.54	12.60	H
									H
									H
									H
	3700	-43.20	-13	-30.20	-36.76	-49.77	1.67	8.24	V
	5548	-32.44	-13	-19.44	-32.97	-39.51	2.65	9.72	V
	7403	-40.65	-13	-27.65	-46.93	-49.80	2.46	11.61	V
	9251	-47.33	-13	-34.33	-55.9	-57.39	2.54	12.60	V
									V
									V
									V

LTE Band 2 / 1.4MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3756	-53.37	-13	-40.37	-47.24	-59.99	1.68	8.31	H
	5639	-45.65	-13	-32.65	-46.46	-52.70	2.71	9.76	H
	7515	-42.98	-13	-29.98	-49.21	-52.36	2.42	11.81	H
	9398	-48.69	-13	-35.69	-59.2	-58.66	2.57	12.54	H
									H
									H
									H
	3756	-52.93	-13	-39.93	-46.58	-59.55	1.68	8.31	V
	5639	-37.80	-13	-24.80	-38.55	-44.85	2.71	9.76	V
	7515	-43.54	-13	-30.54	-50.06	-52.92	2.42	11.81	V
	9398	-46.82	-13	-33.82	-55.68	-56.79	2.57	12.54	V
									V
									V
									V
Highest	3819	-51.56	-13	-38.56	-45.52	-58.24	1.70	8.38	H
	5723	-40.07	-13	-27.07	-41.11	-47.11	2.75	9.79	H
	7634	-40.32	-13	-27.32	-46.75	-49.81	2.39	11.88	H
	9545	-48.87	-13	-35.87	-59.93	-58.74	2.60	12.47	H
									H
									H
									H
	3819	-55.54	-13	-42.54	-49.3	-62.22	1.70	8.38	V
	5723	-39.76	-13	-26.76	-40.73	-46.80	2.75	9.79	V
	7634	-39.85	-13	-26.85	-46.52	-49.34	2.39	11.88	V
	9545	-46.63	-13	-33.63	-55.88	-56.50	2.60	12.47	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 2 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-43.24	-13	-30.24	-37.05	-49.81	1.67	8.24	H
	5548	-44.76	-13	-31.76	-45.33	-51.83	2.65	9.72	H
	7403	-40.80	-13	-27.80	-46.78	-49.95	2.46	11.61	H
	9251	-47.25	-13	-34.25	-57.23	-57.31	2.54	12.60	H
									H
									H
									H
	3700	-43.99	-13	-30.99	-37.55	-50.56	1.67	8.24	V
	5548	-40.04	-13	-27.04	-40.57	-47.11	2.65	9.72	V
	7403	-41.23	-13	-28.23	-47.51	-50.38	2.46	11.61	V
	9251	-46.47	-13	-33.47	-55.04	-56.53	2.54	12.60	V
									V
									V
									V
Middle	3756	-51.83	-13	-38.83	-45.7	-58.45	1.68	8.31	H
	5639	-47.22	-13	-34.22	-48.03	-54.27	2.71	9.76	H
	7515	-43.21	-13	-30.21	-49.44	-52.59	2.42	11.81	H
	9391	-49.03	-13	-36.03	-59.54	-59.01	2.57	12.54	H
									H
									H
									H
	3756	-52.97	-13	-39.97	-46.62	-59.59	1.68	8.31	V
	5639	-45.20	-13	-32.20	-45.95	-52.25	2.71	9.76	V
	7515	-42.78	-13	-29.78	-49.3	-52.16	2.42	11.81	V
	9391	-45.88	-13	-32.88	-54.74	-55.86	2.57	12.54	V
									V
									V
									V

LTE Band 2 / 3MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3812	-52.93	-13	-39.93	-46.87	-59.60	1.70	8.37	H
	5723	-43.13	-13	-30.13	-44.17	-50.17	2.75	9.79	H
	7627	-39.10	-13	-26.10	-45.53	-48.59	2.39	11.88	H
	9538	-47.53	-13	-34.53	-58.53	-57.41	2.60	12.48	H
									H
									H
									H
	3812	-56.60	-13	-43.60	-50.33	-63.27	1.70	8.37	V
	5723	-43.90	-13	-30.90	-44.87	-50.94	2.75	9.79	V
	7627	-39.41	-13	-26.41	-46.08	-48.90	2.39	11.88	V
	9538	-45.17	-13	-32.17	-54.35	-55.05	2.60	12.48	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 2 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-43.68	-13	-30.68	-37.49	-50.25	1.67	8.24	H
	5548	-47.59	-13	-34.59	-48.16	-54.66	2.65	9.72	H
	7403	-43.06	-13	-30.06	-49.04	-52.21	2.46	11.61	H
	9251	-46.90	-13	-33.90	-56.88	-56.96	2.54	12.60	H
	12954	-51.26	-13	-38.26	-68.27	-61.29	2.92	12.94	H
	14802	-53.75	-13	-40.75	-71.13	-63.60	3.52	13.36	H
									H
	3700	-44.23	-13	-31.23	-37.79	-50.80	1.67	8.24	V
	5548	-45.53	-13	-32.53	-46.06	-52.60	2.65	9.72	V
	7403	-41.76	-13	-28.76	-48.04	-50.91	2.46	11.61	V
	9251	-45.15	-13	-32.15	-53.72	-55.21	2.54	12.60	V
	12954	-48.40	-13	-35.40	-64.61	-58.43	2.92	12.94	V
	14802	-51.84	-13	-38.84	-70.36	-61.69	3.52	13.36	V
									V
Middle	3756	-53.72	-13	-40.72	-47.59	-60.34	1.68	8.31	H
	5632	-42.55	-13	-29.55	-43.34	-49.60	2.70	9.75	H
	7508	-42.69	-13	-29.69	-48.92	-52.07	2.43	11.80	H
	9391	-47.62	-13	-34.62	-58.14	-57.60	2.57	12.54	H
									H
									H
									H
	3756	-51.18	-13	-38.18	-44.85	-57.80	1.68	8.31	V
	5632	-42.55	-13	-29.55	-43.26	-49.60	2.70	9.75	V
	7508	-42.54	-13	-29.54	-49.07	-51.92	2.43	11.80	V
	9391	-43.55	-13	-30.55	-52.44	-53.53	2.57	12.54	V
									V
									V
									V

LTE Band 2 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3812	-51.64	-13	-38.64	-45.6	-58.31	1.70	8.37	H
	5716	-40.12	-13	-27.12	-41.15	-47.16	2.75	9.79	H
	7620	-38.46	-13	-25.46	-44.87	-47.94	2.39	11.87	H
	9524	-47.62	-13	-34.62	-58.56	-57.51	2.59	12.49	H
									H
									H
									H
	3812	-55.23	-13	-42.23	-48.96	-61.90	1.70	8.37	V
	5716	-44.32	-13	-31.32	-45.26	-51.36	2.75	9.79	V
	7620	-37.64	-13	-24.64	-44.32	-47.12	2.39	11.87	V
	9524	-43.22	-13	-30.22	-52.34	-53.11	2.59	12.49	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 2 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-42.24	-13	-29.24	-36.07	-48.81	1.67	8.24	H
	5548	-42.64	-13	-29.64	-43.22	-49.71	2.65	9.72	H
	7403	-42.23	-13	-29.23	-48.21	-51.38	2.46	11.61	H
	9251	-45.65	-13	-32.65	-55.63	-55.71	2.54	12.60	H
									H
									H
									H
	3700	-44.43	-13	-31.43	-37.99	-51.00	1.67	8.24	V
	5548	-42.72	-13	-29.72	-43.27	-49.79	2.65	9.72	V
	7403	-41.97	-13	-28.97	-48.27	-51.12	2.46	11.61	V
	9251	-43.33	-13	-30.33	-51.9	-53.39	2.54	12.60	V
									V
									V
									V
Middle	3749	-49.07	-13	-36.07	-42.95	-55.69	1.68	8.30	H
	5625	-36.64	-13	-23.64	-37.44	-43.69	2.70	9.75	H
	7501	-41.92	-13	-28.92	-48.12	-51.29	2.43	11.80	H
	9377	-46.46	-13	-33.46	-56.91	-56.45	2.56	12.55	H
									H
									H
									H
	3749	-50.03	-13	-37.03	-43.68	-56.65	1.68	8.30	V
	5625	-38.79	-13	-25.79	-39.51	-45.84	2.70	9.75	V
	7501	-41.92	-13	-28.92	-48.42	-51.29	2.43	11.80	V
	9377	-41.71	-13	-28.71	-50.55	-51.70	2.56	12.55	V
									V
									V
									V

LTE Band 2 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3798	-52.00	-13	-39.00	-45.96	-58.66	1.70	8.36	H
	5702	-38.82	-13	-25.82	-39.84	-45.86	2.74	9.78	H
	7599	-37.57	-13	-24.57	-43.96	-47.03	2.40	11.86	H
	9503	-45.54	-13	-32.54	-56.49	-55.45	2.59	12.50	H
									H
									H
									H
	3798	-52.09	-13	-39.09	-45.84	-58.75	1.70	8.36	V
	5702	-39.81	-13	-26.81	-40.74	-46.85	2.74	9.78	V
	7599	-38.24	-13	-25.24	-44.86	-47.70	2.40	11.86	V
	9503	-40.70	-13	-27.70	-49.78	-50.61	2.59	12.50	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 2 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-44.69	-13	-31.69	-38.52	-51.26	1.67	8.24	H
	5555	-43.10	-13	-30.10	-43.68	-50.17	2.66	9.72	H
	7403	-42.20	-13	-29.20	-48.18	-51.35	2.46	11.61	H
	9251	-45.84	-13	-32.84	-55.82	-55.90	2.54	12.60	H
									H
									H
									H
	3700	-46.18	-13	-33.18	-39.75	-52.75	1.67	8.24	V
	5555	-42.72	-13	-29.72	-43.25	-49.79	2.66	9.72	V
	7403	-42.41	-13	-29.41	-48.69	-51.56	2.46	11.61	V
	9251	-43.50	-13	-30.50	-52.1	-53.56	2.54	12.60	V
									V
									V
									V
Middle	3749	-48.13	-13	-35.13	-42.02	-54.75	1.68	8.30	H
	5618	-43.39	-13	-30.39	-44.15	-50.44	2.69	9.75	H
	7494	-42.64	-13	-29.64	-48.84	-52.00	2.43	11.79	H
	9370	-45.94	-13	-32.94	-56.33	-55.93	2.56	12.55	H
									H
									H
									H
	3749	-50.22	-13	-37.22	-43.87	-56.84	1.68	8.30	V
	5618	-45.23	-13	-32.23	-45.94	-52.28	2.69	9.75	V
	7494	-41.01	-13	-28.01	-47.51	-50.37	2.43	11.79	V
	9370	-41.14	-13	-28.14	-49.96	-51.13	2.56	12.55	V
									V
									V
									V

LTE Band 2 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3791	-53.81	-13	-40.81	-47.76	-60.46	1.70	8.35	H
	5688	-44.11	-13	-31.11	-45.06	-51.15	2.73	9.78	H
	7585	-40.12	-13	-27.12	-46.48	-49.57	2.40	11.85	H
	9482	-47.64	-13	-34.64	-58.5	-57.56	2.59	12.51	H
									H
									H
									H
	3791	-54.14	-13	-41.14	-47.9	-60.79	1.70	8.35	V
	5688	-42.01	-13	-29.01	-42.89	-49.05	2.73	9.78	V
	7585	-39.44	-13	-26.44	-46.04	-48.89	2.40	11.85	V
	9482	-42.16	-13	-29.16	-51.19	-52.08	2.59	12.51	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-42.56	-13	-29.56	-36.4	-49.13	1.67	8.24	H
	5555	-41.93	-13	-28.93	-42.53	-49.00	2.66	9.72	H
	7403	-40.74	-13	-27.74	-46.72	-49.89	2.46	11.61	H
	9258	-46.46	-13	-33.46	-56.54	-56.52	2.54	12.60	H
									H
									H
									H
	3700	-44.74	-13	-31.74	-38.31	-51.31	1.67	8.24	V
	5555	-41.72	-13	-28.72	-42.25	-48.79	2.66	9.72	V
	7403	-40.39	-13	-27.39	-46.7	-49.54	2.46	11.61	V
	9258	-42.62	-13	-29.62	-51.24	-52.68	2.54	12.60	V
									V
									V
									V
Middle	3742	-47.04	-13	-34.04	-40.93	-53.65	1.68	8.29	H
	5611	-45.84	-13	-32.84	-46.55	-52.90	2.69	9.74	H
	7487	-42.61	-13	-29.61	-48.82	-51.95	2.43	11.77	H
	9356	-45.10	-13	-32.10	-55.49	-55.10	2.56	12.56	H
									H
									H
									H
	3742	-50.08	-13	-37.08	-43.71	-56.69	1.68	8.29	V
	5611	-41.19	-13	-28.19	-41.85	-48.25	2.69	9.74	V
	7487	-41.45	-13	-28.45	-47.96	-50.79	2.43	11.77	V
	9356	-42.00	-13	-29.00	-50.8	-52.00	2.56	12.56	V
									V
									V
									V

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3784	-48.86	-13	-35.86	-42.78	-55.51	1.69	8.34	H
	5674	-37.81	-13	-24.81	-38.71	-44.85	2.73	9.77	H
	7564	-41.12	-13	-28.12	-47.48	-50.55	2.41	11.84	H
	9454	-47.81	-13	-34.81	-58.52	-57.75	2.58	12.52	H
									H
									H
									H
	3784	-54.30	-13	-41.30	-48.02	-60.95	1.69	8.34	V
	5674	-42.12	-13	-29.12	-43.02	-49.16	2.73	9.77	V
	7564	-40.27	-13	-27.27	-46.88	-49.70	2.41	11.84	V
	9454	-44.04	-13	-31.04	-52.99	-53.98	2.58	12.52	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4

LTE Band 4 / 1.4MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-64.07	-13	-51.07	-57.5	-70.14	1.58	7.65	H
	5128	-54.22	-13	-41.22	-53.78	-61.51	2.41	9.70	H
	6843	-42.15	-13	-29.15	-46.51	-50.12	2.64	10.61	H
	8551	-39.42	-13	-26.42	-47.94	-49.55	2.39	12.52	H
									H
									H
									H
	3420	-62.24	-13	-49.24	-55.37	-68.31	1.58	7.65	V
	5128	-52.36	-13	-39.36	-51.71	-59.65	2.41	9.70	V
	6843	-49.11	-13	-36.11	-53.69	-57.08	2.64	10.61	V
	8551	-42.52	-13	-29.52	-50.7	-52.65	2.39	12.52	V
									V
									V
									V
Middle	3462	-67.07	-13	-54.07	-60.57	-73.31	1.59	7.83	H
	5198	-49.17	-13	-36.17	-48.87	-56.42	2.45	9.70	H
	6927	-45.65	-13	-32.65	-50.33	-53.75	2.61	10.71	H
	8663	-44.47	-13	-31.47	-53.16	-54.62	2.41	12.57	H
									H
									H
									H
	3462	-64.13	-13	-51.13	-57.33	-70.37	1.59	7.83	V
	5198	-53.18	-13	-40.18	-52.71	-60.43	2.45	9.70	V
	6927	-52.59	-13	-39.59	-57.53	-60.69	2.61	10.71	V
	8663	-48.03	-13	-35.03	-56.2	-58.18	2.41	12.57	V
									V
									V
									V

LTE Band 4 / 1.4MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3504	-64.72	-13	-51.72	-58.34	-71.12	1.61	8.00	H
	5261	-50.24	-13	-37.24	-50.09	-57.45	2.49	9.70	H
	7018	-43.91	-13	-30.91	-48.88	-52.16	2.58	10.84	H
	8768	-45.94	-13	-32.94	-54.76	-56.11	2.43	12.61	H
									H
									H
									H
	3504	-62.05	-13	-49.05	-55.32	-68.45	1.61	8.00	V
	5261	-50.64	-13	-37.64	-50.36	-57.85	2.49	9.70	V
	7018	-48.75	-13	-35.75	-54	-57	2.58	10.84	V
	8768	-45.23	-13	-32.23	-53.4	-55.4	2.43	12.61	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 3MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-64.09	-13	-51.09	-57.49	-70.16	1.58	7.65	H
	5128	-53.99	-13	-40.99	-53.51	-61.28	2.41	9.70	H
	6843	-42.79	-13	-29.79	-47.13	-50.76	2.64	10.61	H
	8551	-40.14	-13	-27.14	-48.65	-50.27	2.39	12.52	H
									H
									H
									H
	3420	-61.73	-13	-48.73	-54.85	-67.8	1.58	7.65	V
	5128	-52.74	-13	-39.74	-52.1	-60.03	2.41	9.70	V
	6843	-48.51	-13	-35.51	-53.1	-56.48	2.64	10.61	V
	8551	-43.01	-13	-30.01	-51.19	-53.14	2.39	12.52	V
									V
									V
									V
Middle	3462	-66.32	-13	-53.32	-59.81	-72.56	1.59	7.83	H
	5191	-48.98	-13	-35.98	-48.66	-56.23	2.45	9.70	H
	6927	-45.02	-13	-32.02	-49.7	-53.12	2.61	10.71	H
	8656	-46.96	-13	-33.96	-55.62	-57.11	2.41	12.56	H
									H
									H
									H
	3462	-64.55	-13	-51.55	-57.76	-70.79	1.59	7.83	V
	5191	-50.13	-13	-37.13	-49.66	-57.38	2.45	9.70	V
	6927	-52.55	-13	-39.55	-57.51	-60.65	2.61	10.71	V
	8656	-47.60	-13	-34.60	-55.8	-57.75	2.41	12.56	V
									V
									V
									V

LTE Band 4 / 3MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3504	-62.49	-13	-49.49	-56.05	-68.89	1.61	8.00	H
	5254	-52.11	-13	-39.11	-51.92	-59.33	2.48	9.70	H
	7011	-42.74	-13	-29.74	-47.69	-50.98	2.59	10.82	H
	8761	-43.82	-13	-30.82	-52.64	-53.99	2.43	12.60	H
									H
									H
									H
	3504	-61.23	-13	-48.23	-54.48	-67.63	1.61	8.00	V
	5254	-50.16	-13	-37.16	-49.84	-57.38	2.48	9.70	V
	7011	-47.61	-13	-34.61	-52.86	-55.85	2.59	10.82	V
	8761	-43.70	-13	-30.70	-51.86	-53.87	2.43	12.60	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 5MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-64.16	-13	-51.16	-57.56	-70.23	1.58	7.65	H
	5128	-55.56	-13	-42.56	-55.11	-62.85	2.41	9.70	H
	6843	-41.82	-13	-28.82	-46.14	-49.79	2.64	10.61	H
	8551	-39.79	-13	-26.79	-48.36	-49.92	2.39	12.52	H
									H
									H
									H
	3420	-63.61	-13	-50.61	-56.72	-69.68	1.58	7.65	V
	5128	-49.31	-13	-36.31	-48.66	-56.6	2.41	9.70	V
	6843	-50.53	-13	-37.53	-55.11	-58.5	2.64	10.61	V
	8551	-43.93	-13	-30.93	-52.11	-54.06	2.39	12.52	V
									V
									V
									V
Middle	3462	-66.86	-13	-53.86	-60.35	-73.1	1.59	7.83	H
	5191	-48.95	-13	-35.95	-48.63	-56.2	2.45	9.70	H
	6920	-45.07	-13	-32.07	-49.66	-53.16	2.62	10.70	H
	8649	-49.53	-13	-36.53	-58.18	-59.68	2.41	12.56	H
									H
									H
									H
	3462	-64.61	-13	-51.61	-57.82	-70.85	1.59	7.83	V
	5191	-49.37	-13	-36.37	-48.9	-56.62	2.45	9.70	V
	6920	-51.13	-13	-38.13	-56	-59.22	2.62	10.70	V
	8649	-50.30	-13	-37.30	-58.48	-60.45	2.41	12.56	V
									V
									V
									V

LTE Band 4 / 5MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3497	-63.26	-13	-50.26	-56.82	-69.64	1.60	7.99	H
	5254	-52.50	-13	-39.50	-52.3	-59.72	2.48	9.70	H
	7004	-42.78	-13	-29.78	-47.74	-51	2.59	10.81	H
	8754	-44.38	-13	-31.38	-53.17	-54.55	2.43	12.60	H
									H
									H
									H
	3497	-61.93	-13	-48.93	-55.2	-68.31	1.60	7.99	V
	5254	-51.81	-13	-38.81	-51.51	-59.03	2.48	9.70	V
	7004	-48.18	-13	-35.18	-53.42	-56.4	2.59	10.81	V
	8754	-43.58	-13	-30.58	-51.76	-53.75	2.43	12.60	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 10MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-64.44	-13	-51.44	-57.84	-70.51	1.58	7.65	H
	5128	-55.27	-13	-42.27	-54.79	-62.56	2.41	9.70	H
	6843	-43.59	-13	-30.59	-47.94	-51.56	2.64	10.61	H
	8551	-39.72	-13	-26.72	-48.26	-49.85	2.39	12.52	H
									H
									H
									H
	3420	-62.05	-13	-49.05	-55.19	-68.12	1.58	7.65	V
	5128	-53.74	-13	-40.74	-53.09	-61.03	2.41	9.70	V
	6843	-48.83	-13	-35.83	-53.41	-56.8	2.64	10.61	V
	8551	-44.17	-13	-31.17	-52.36	-54.3	2.39	12.52	V
									V
									V
									V
Middle	3455	-67.24	-13	-54.24	-60.82	-73.45	1.59	7.80	H
	5184	-47.00	-13	-34.00	-46.67	-54.26	2.44	9.70	H
	6913	-42.18	-13	-29.18	-46.78	-50.26	2.62	10.70	H
	8642	-48.49	-13	-35.49	-57.14	-58.64	2.41	12.56	H
									H
									H
									H
	3455	-64.54	-13	-51.54	-57.78	-70.75	1.59	7.80	V
	5184	-51.39	-13	-38.39	-50.88	-58.65	2.44	9.70	V
	6913	-50.52	-13	-37.52	-55.39	-58.6	2.62	10.70	V
	8642	-50.56	-13	-37.56	-58.78	-60.71	2.41	12.56	V
									V
									V
									V

LTE Band 4 / 10MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3490	-64.50	-13	-51.50	-58.12	-70.85	1.60	7.96	H
	5233	-56.25	-13	-43.25	-56.02	-63.48	2.47	9.70	H
	6983	-41.33	-13	-28.33	-46.18	-49.51	2.60	10.78	H
	8726	-43.83	-13	-30.83	-52.6	-54	2.42	12.59	H
									H
									H
									H
	3490	-61.07	-13	-48.07	-54.3	-67.42	1.60	7.96	V
	5233	-54.00	-13	-41.00	-53.64	-61.23	2.47	9.70	V
	6983	-43.42	-13	-30.42	-48.57	-51.6	2.60	10.78	V
	8726	-41.15	-13	-28.15	-49.36	-51.32	2.42	12.59	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 15MHz / 16QAM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-64.78	-13	-51.78	-58.2	-70.85	1.58	7.65	H
	5135	-55.00	-13	-42.00	54.52	-62.29	2.41	9.70	H
	6843	-43.54	-13	-30.54	-47.86	-51.51	2.64	10.61	H
	8551	-39.72	-13	-26.72	-48.24	-49.85	2.39	12.52	H
									H
									H
									H
	3420	-61.93	-13	-48.93	-55.05	-68	1.58	7.65	V
	5135	-54.16	-13	-41.16	-53.55	-61.45	2.41	9.70	V
	6843	-48.95	-13	-35.95	-53.54	-56.92	2.64	10.61	V
	8551	-44.32	-13	-31.32	-52.53	-54.45	2.39	12.52	V
									V
									V
									V
Middle	3448	-66.77	-13	-53.77	-60.23	-72.95	1.59	7.77	H
	5177	-53.63	-13	-40.63	-53.27	-60.89	2.44	9.70	H
	6906	-48.93	-13	-35.93	-53.48	-57	2.62	10.69	H
	8628	-52.30	-13	-39.30	-60.93	-62.45	2.40	12.55	H
									H
									H
									H
	3448	-64.82	-13	-51.82	-58.01	-71	1.59	7.77	V
	5177	-52.95	-13	-39.95	-52.46	-60.21	2.44	9.70	V
	6906	-55.24	-13	-42.24	-60.03	-63.31	2.62	10.69	V
	8628	-54.65	-13	-41.65	-62.85	-64.8	2.40	12.55	V
									V
									V
									V