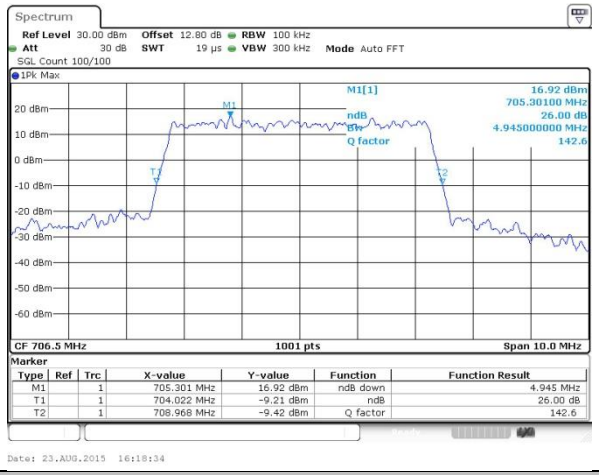
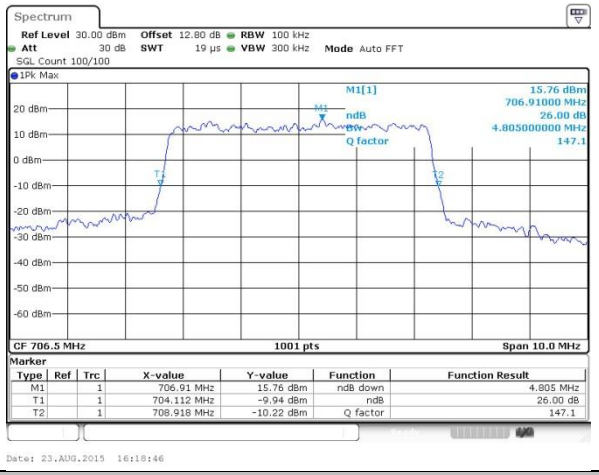
LTE Band 17

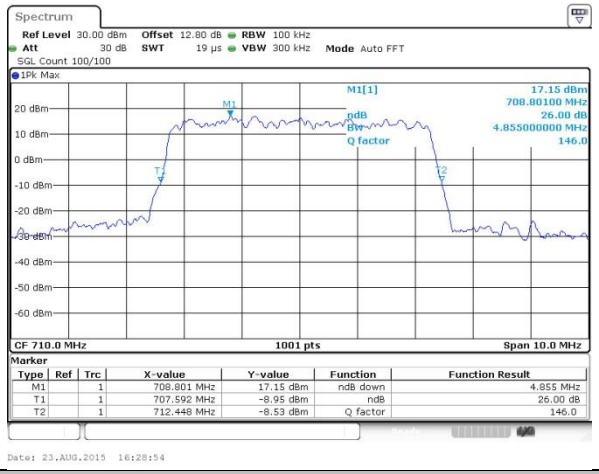
Lowest Channel / 5MHz / QPSK



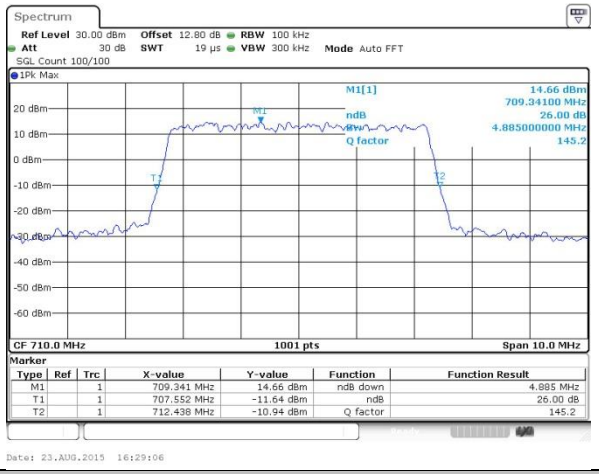
Lowest Channel / 5MHz / 16QAM



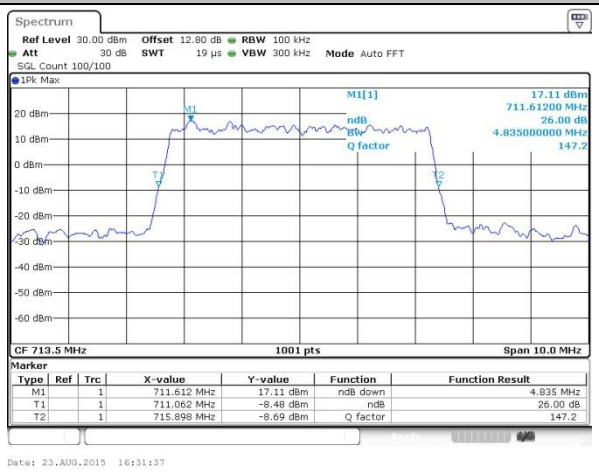
Middle Channel / 5MHz / QPSK



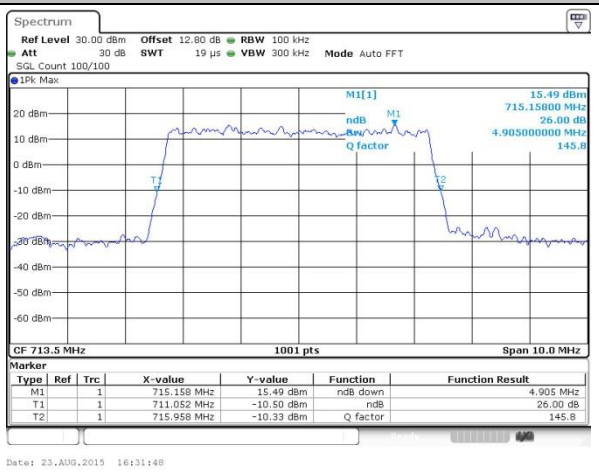
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

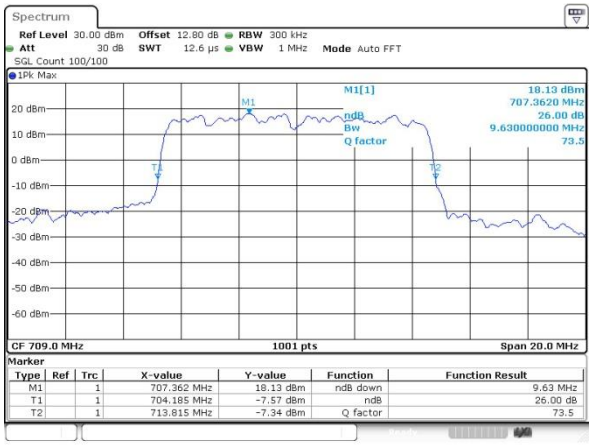


Highest Channel / 5MHz / 16QAM

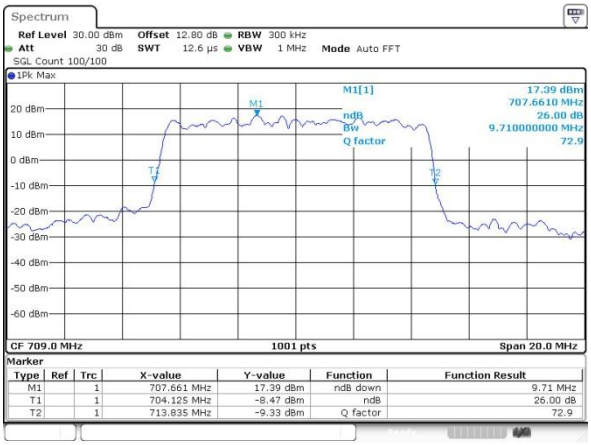


LTE Band 17

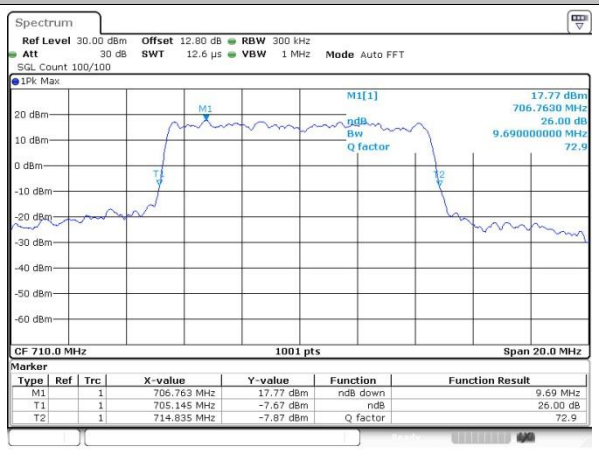
Lowest Channel / 10MHz / QPSK



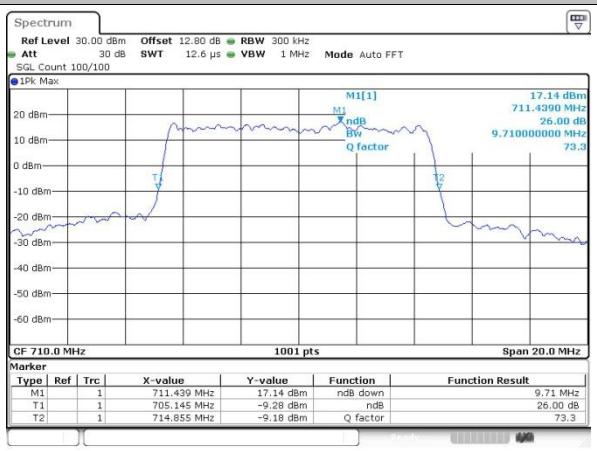
Lowest Channel / 10MHz / 16QAM



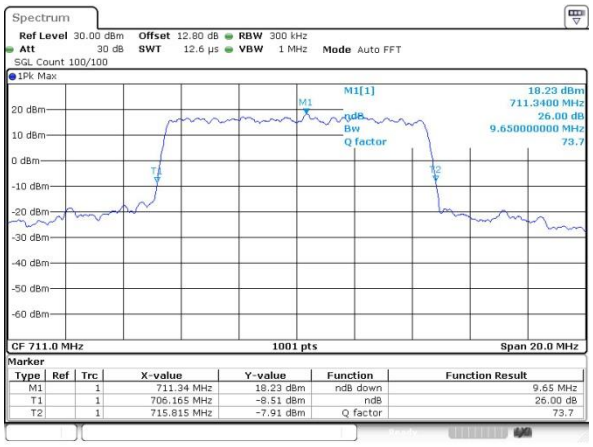
Middle Channel / 10MHz / QPSK



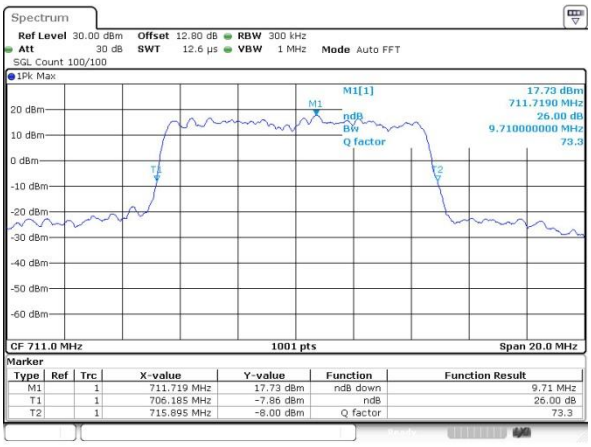
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

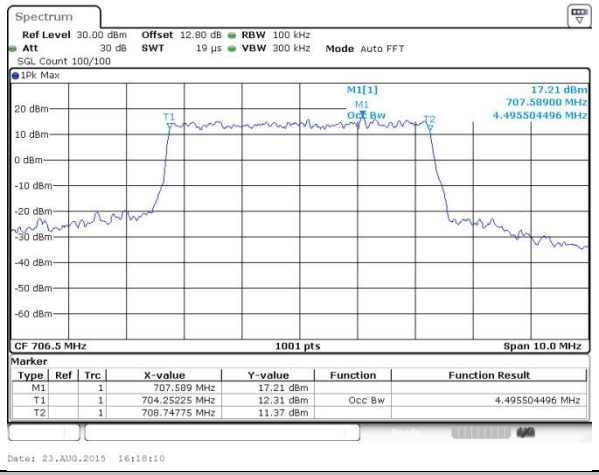


Occupied Bandwidth

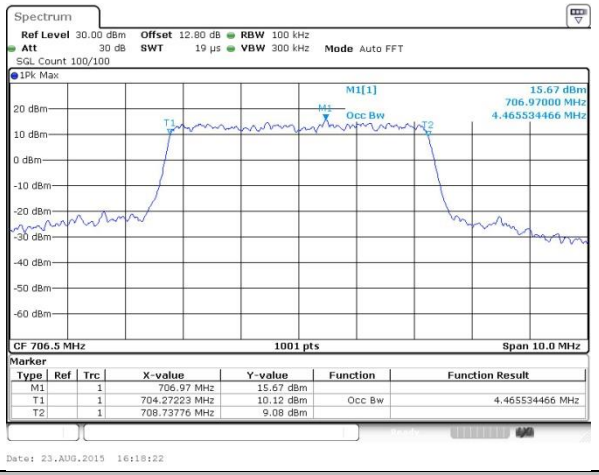
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.47	9.05	9.01	-	-	-	-
Middle CH	-	-	-	-	4.50	4.50	9.09	9.03	-	-	-	-
Highest CH	-	-	-	-	4.48	4.48	9.05	8.99	-	-	-	-

LTE Band 17

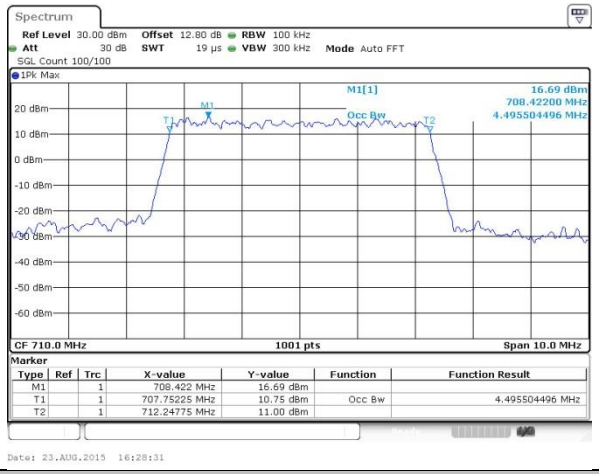
Lowest Channel / 5MHz / QPSK



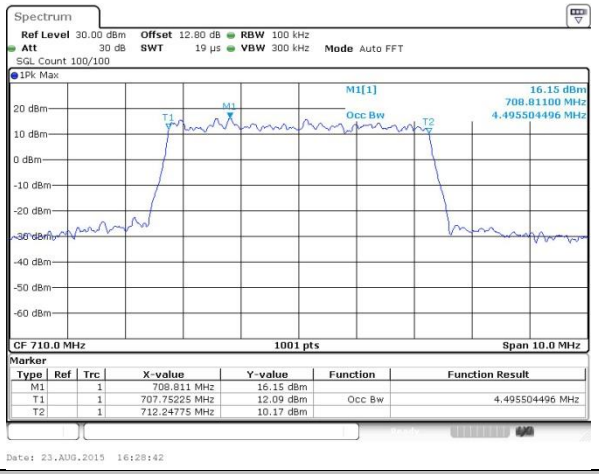
Lowest Channel / 5MHz / 16QAM



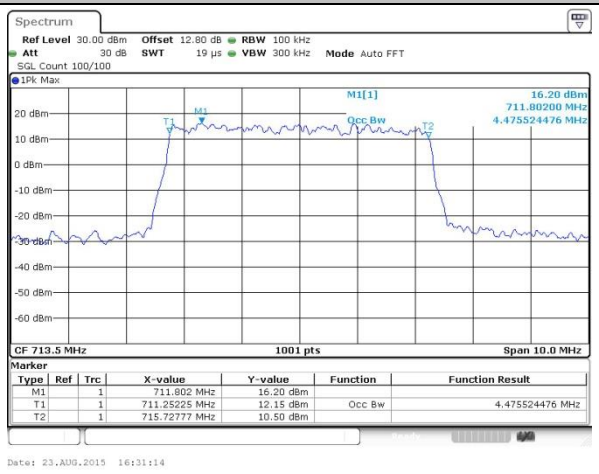
Middle Channel / 5MHz / QPSK



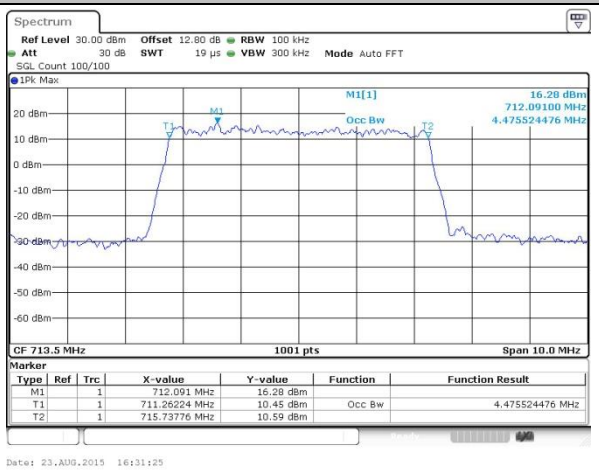
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

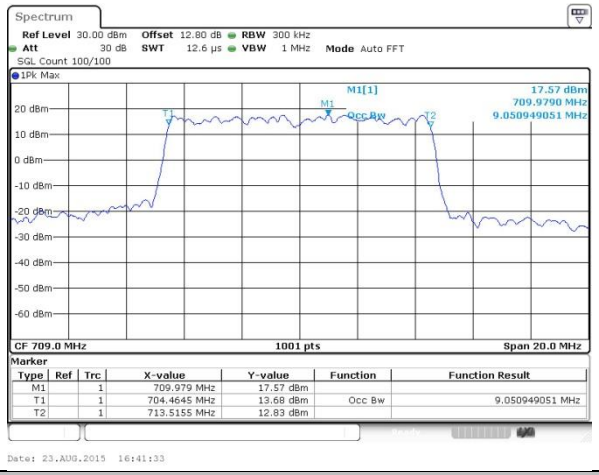


Highest Channel / 5MHz / 16QAM

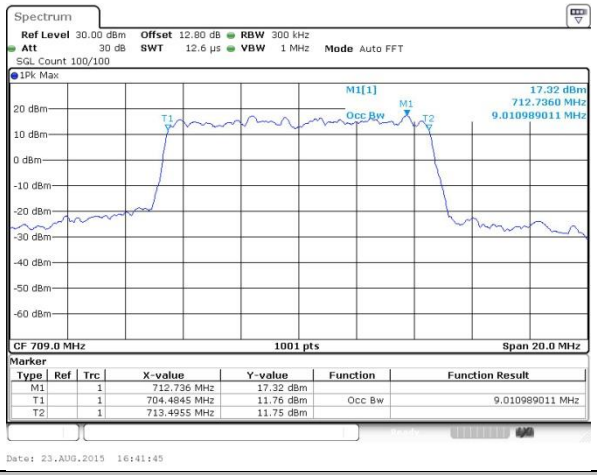


LTE Band 17

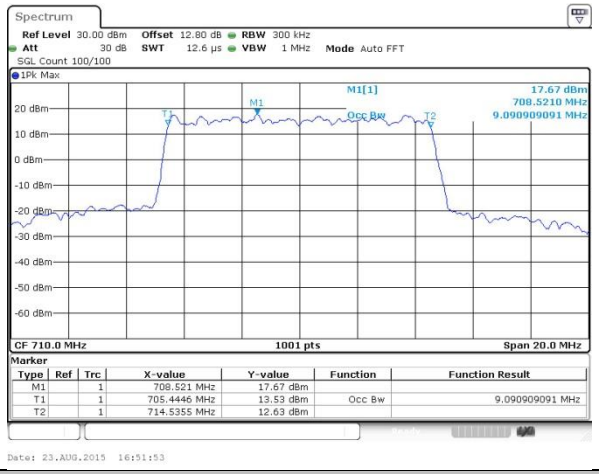
Lowest Channel / 10MHz / QPSK



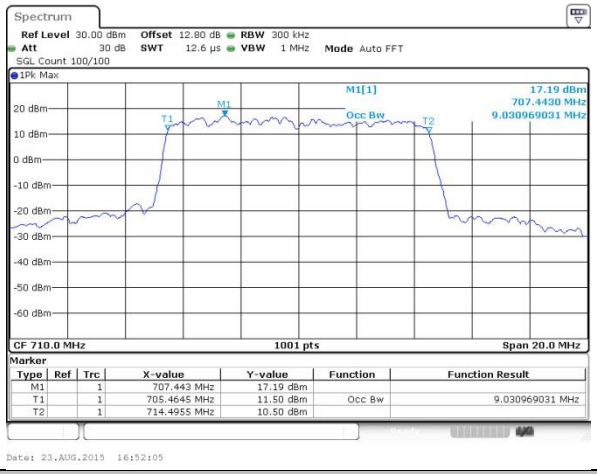
Lowest Channel / 10MHz / 16QAM



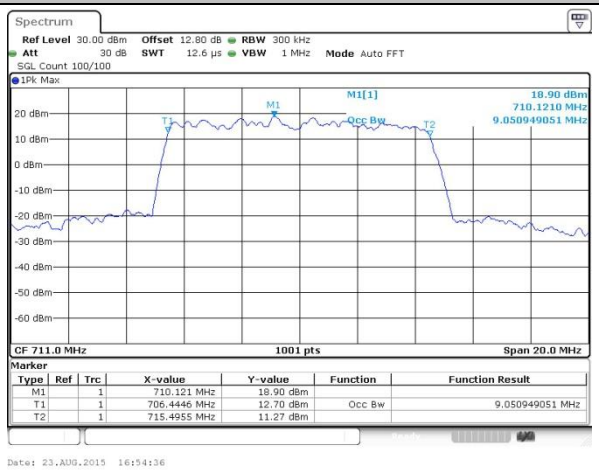
Middle Channel / 10MHz / QPSK



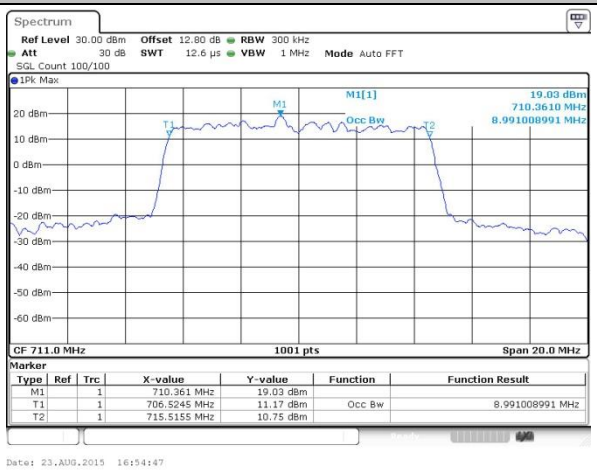
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



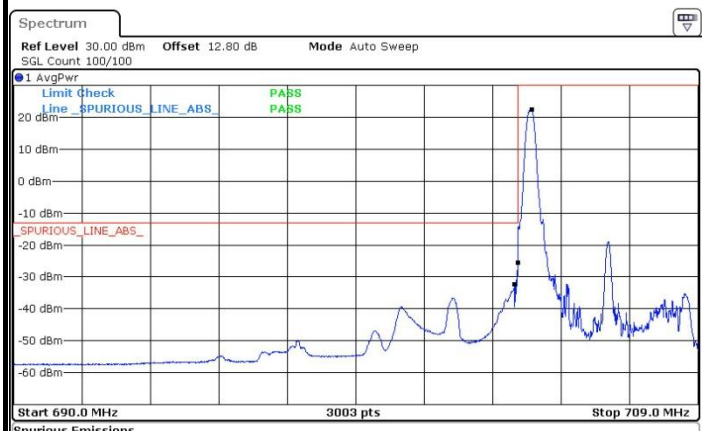
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

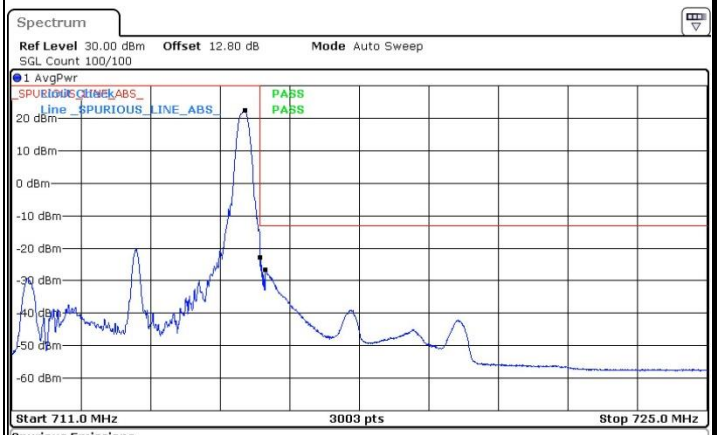


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.34 dBm	-19.34 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99915 MHz	-25.52 dBm	-12.52 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.37213 MHz	22.38 dBm	-7.62 dB

Date: 23.AUG.2015 16:20:40

Highest Band Edge / 1 RB

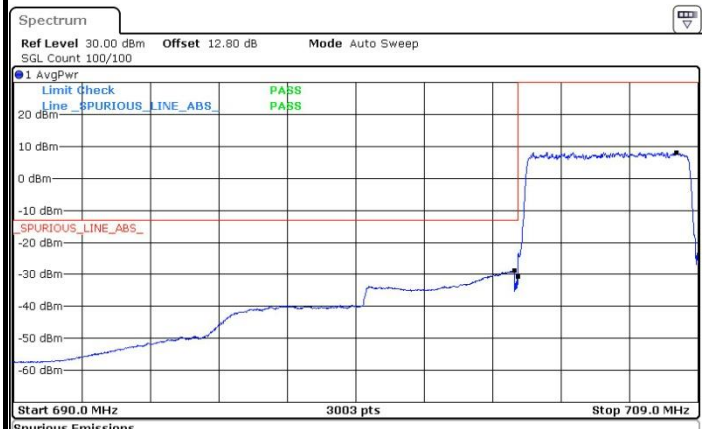


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.69281 MHz	22.54 dBm	-7.46 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00065 MHz	-22.78 dBm	-9.78 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.51 dBm	-13.51 dB

Date: 23.AUG.2015 16:33:43

Lowest Band Edge / Full RB

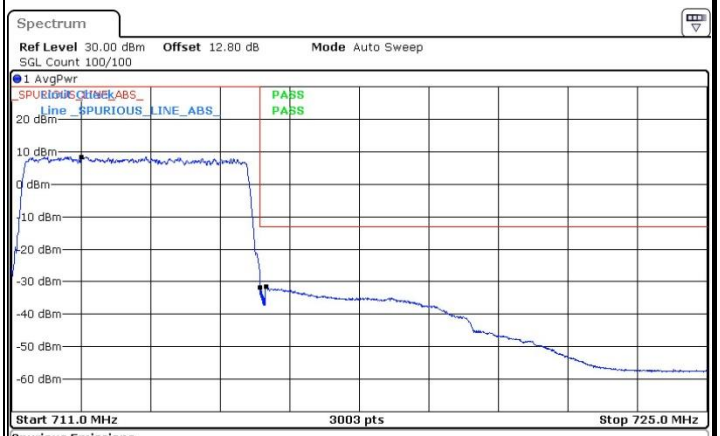


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-28.90 dBm	-15.90 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99755 MHz	-30.60 dBm	-17.60 dB
704.000 MHz	709.000 MHz	100.000 kHz	708.39810 MHz	8.16 dBm	-21.84 dB

Date: 23.AUG.2015 16:24:29

Highest Band Edge / Full RB



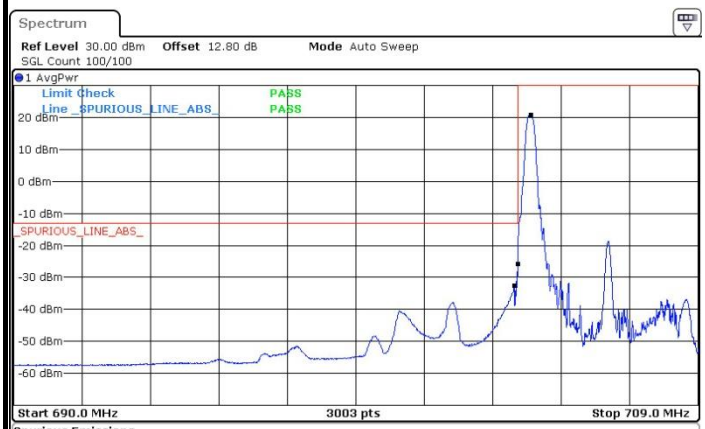
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.40609 MHz	8.44 dBm	-21.56 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00025 MHz	-31.82 dBm	-18.82 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-31.56 dBm	-18.56 dB

Date: 23.AUG.2015 16:37:32

LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

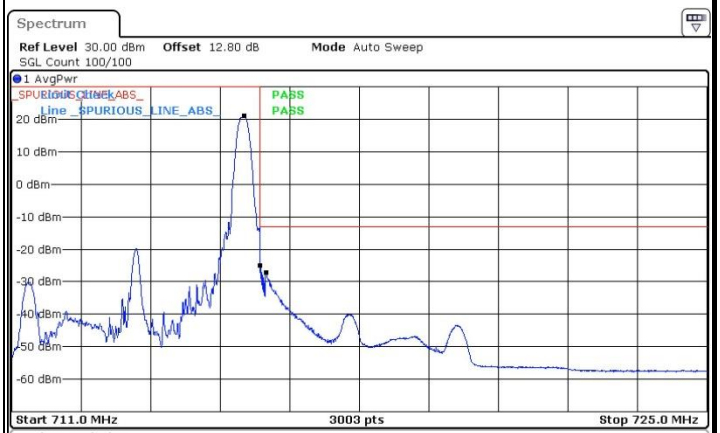


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.65 dBm	-19.65 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99985 MHz	-25.83 dBm	-12.83 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.36713 MHz	20.89 dBm	-9.11 dB

Date: 23.AUG.2015 16:22:34

Highest Band Edge / 1 RB

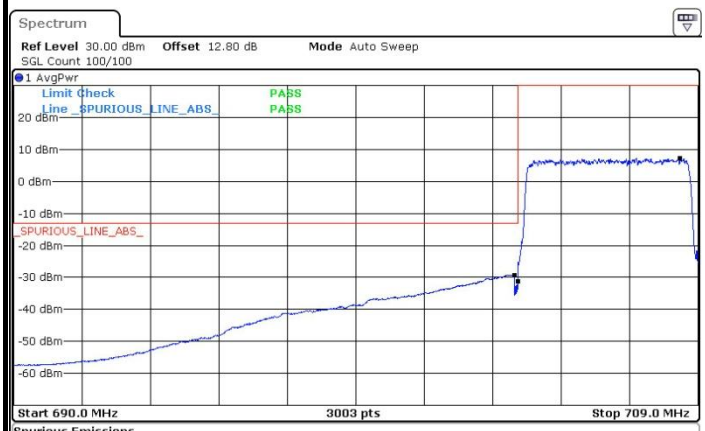


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.68781 MHz	21.03 dBm	-8.97 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00025 MHz	-24.88 dBm	-11.88 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-27.08 dBm	-14.08 dB

Date: 23.AUG.2015 16:35:37

Lowest Band Edge / Full RB

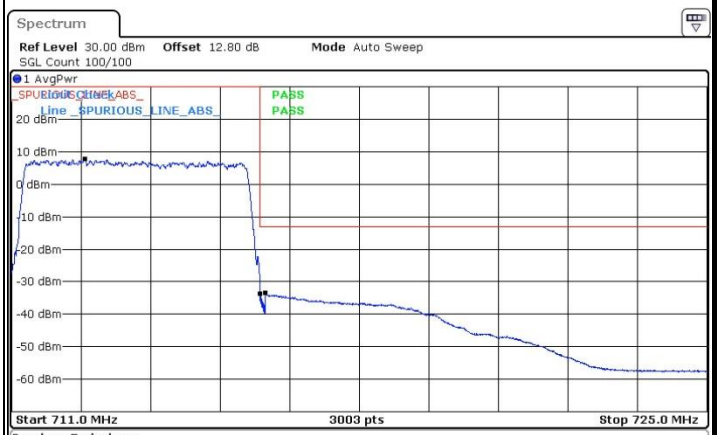


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-29.23 dBm	-16.23 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99496 MHz	-31.36 dBm	-18.36 dB
704.000 MHz	709.000 MHz	100.000 kHz	708.50300 MHz	7.34 dBm	-22.66 dB

Date: 23.AUG.2015 16:26:23

Highest Band Edge / Full RB



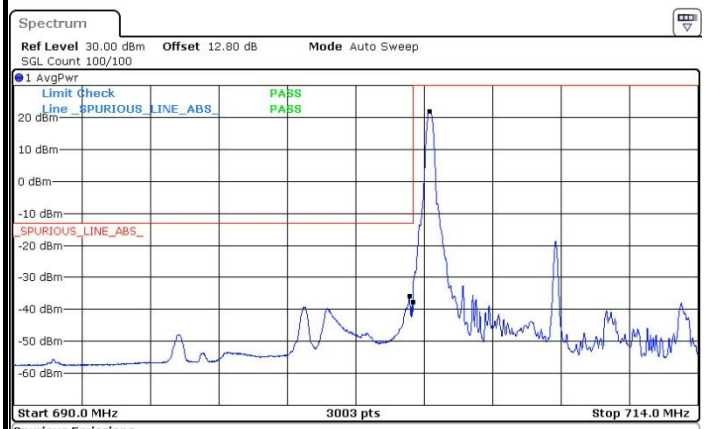
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.47602 MHz	7.66 dBm	-22.34 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00205 MHz	-33.61 dBm	-20.61 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.45 dBm	-20.45 dB

Date: 23.AUG.2015 16:39:26

LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

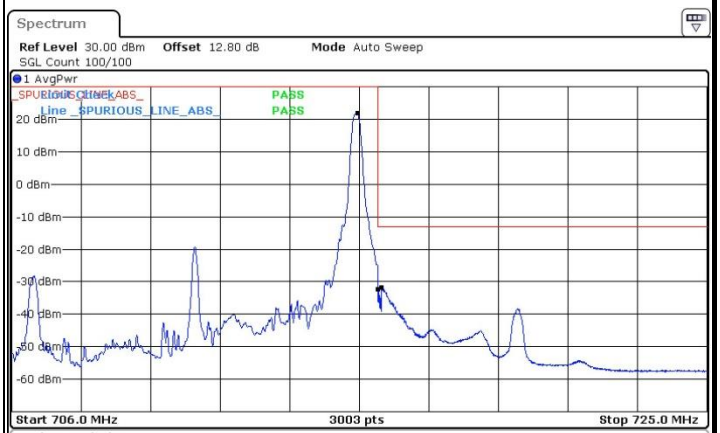


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-35.76 dBm	-22.76 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99905 MHz	-37.85 dBm	-24.85 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.57443 MHz	21.95 dBm	-8.05 dB

Date: 23.AUG.2015 16:44:02

Highest Band Edge / 1 RB

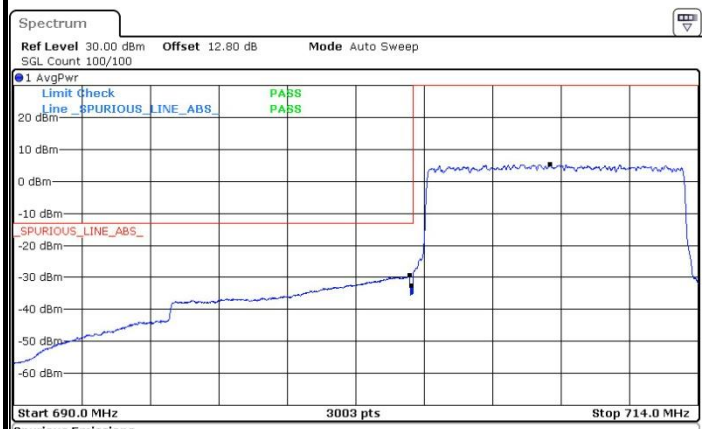


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.44555 MHz	21.92 dBm	-8.08 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01164 MHz	-32.37 dBm	-19.37 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.75 dBm	-18.75 dB

Date: 23.AUG.2015 16:57:05

Lowest Band Edge / Full RB

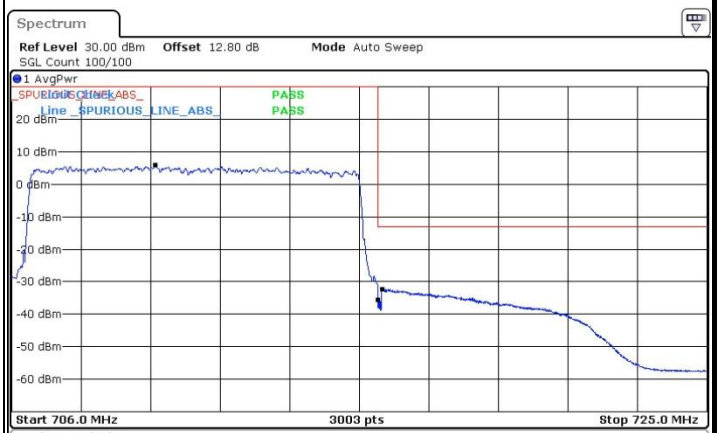


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-29.34 dBm	-16.34 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.95050 MHz	-32.69 dBm	-19.69 dB
704.000 MHz	714.000 MHz	100.000 kHz	708.80020 MHz	5.20 dBm	-24.80 dB

Date: 23.AUG.2015 16:47:51

Highest Band Edge / Full RB



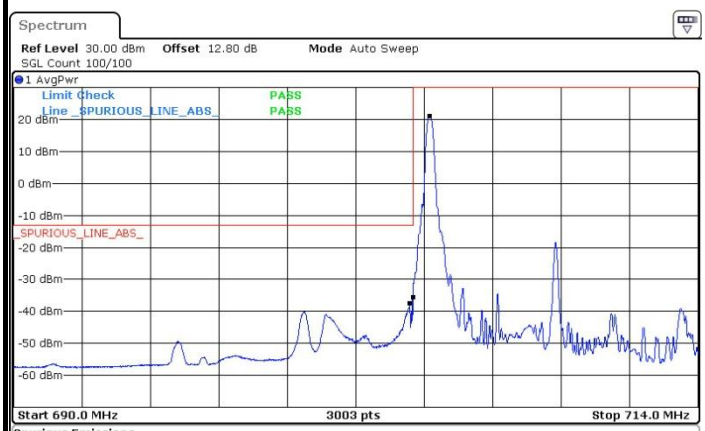
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	709.93107 MHz	5.75 dBm	-24.25 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00514 MHz	-35.45 dBm	-22.45 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-32.33 dBm	-19.33 dB

Date: 23.AUG.2015 17:00:54

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

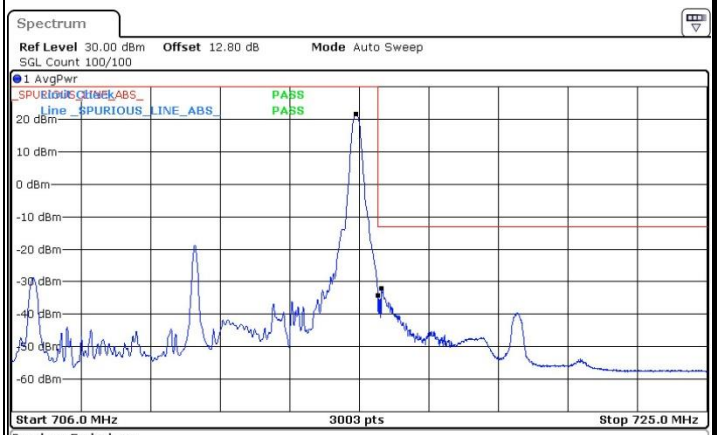


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-37.56 dBm	-24.56 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99995 MHz	-35.56 dBm	-22.56 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.57443 MHz	20.94 dBm	-9.06 dB

Date: 23.AUG.2015 16:45:57

Highest Band Edge / 1 RB

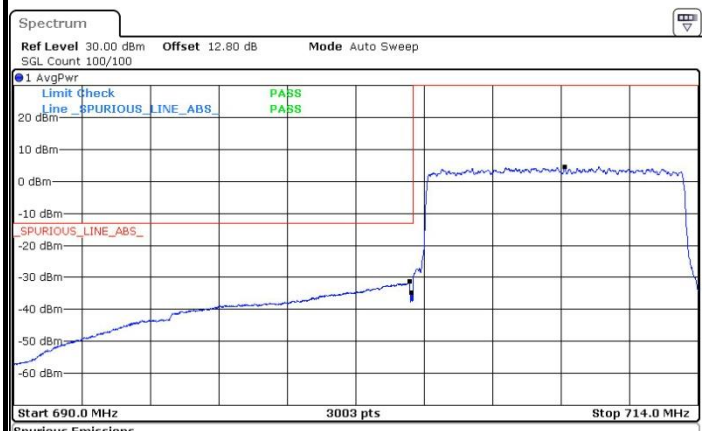


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.41558 MHz	21.56 dBm	-8.44 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01374 MHz	-34.32 dBm	-21.32 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.14 dBm	-19.14 dB

Date: 23.AUG.2015 16:59:00

Lowest Band Edge / Full RB

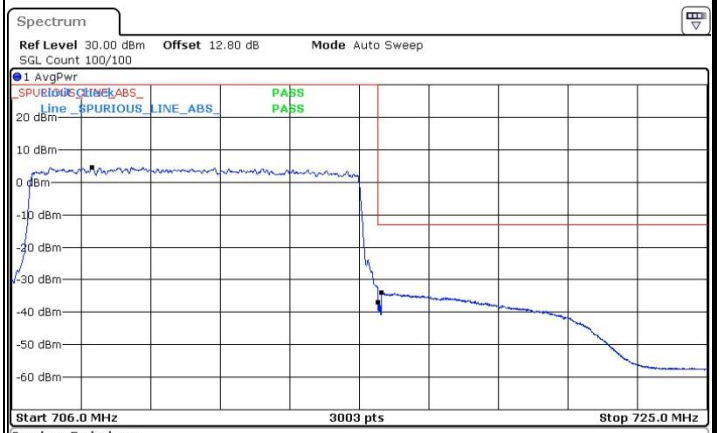


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-31.25 dBm	-18.25 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.95070 MHz	-34.84 dBm	-21.84 dB
704.000 MHz	714.000 MHz	100.000 kHz	709.30969 MHz	4.60 dBm	-25.40 dB

Date: 23.AUG.2015 16:49:46

Highest Band Edge / Full RB



Spurious Emissions

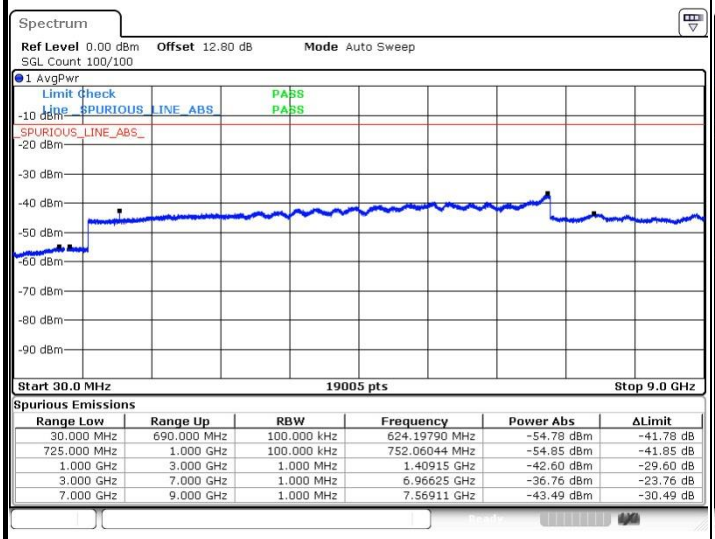
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	708.18282 MHz	4.55 dBm	-25.45 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00614 MHz	-36.84 dBm	-23.84 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.98 dBm	-20.98 dB

Date: 23.AUG.2015 17:02:49

Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

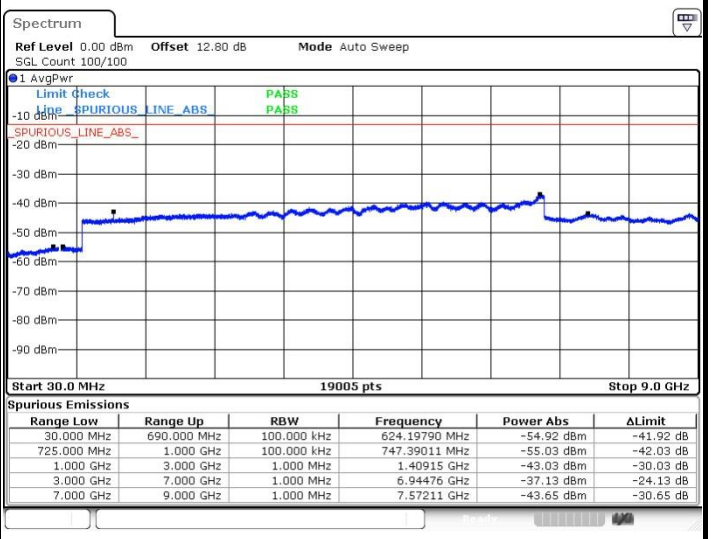


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	624.19790 MHz	-54.78 dBm	-41.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	752.06044 MHz	-54.85 dBm	-41.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-42.60 dBm	-29.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96625 GHz	-36.76 dBm	-23.76 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56911 GHz	-43.49 dBm	-30.49 dB

Date: 23.AUG.2015 16:27:20

Lowest Channel / 16QAM

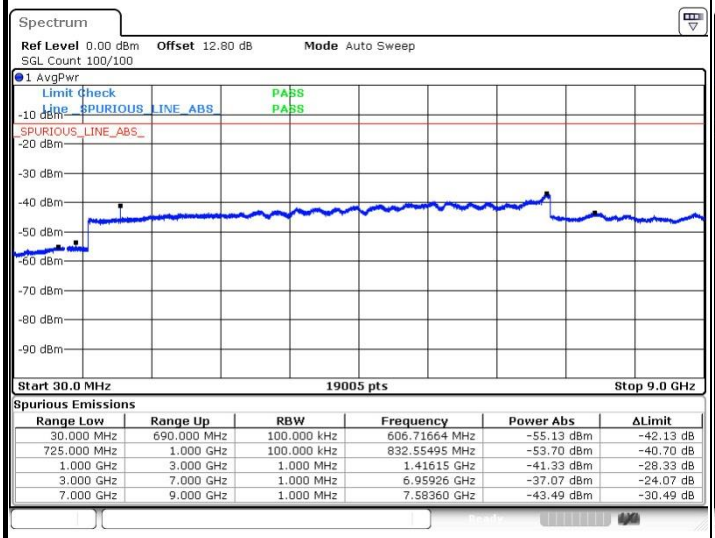


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	624.19790 MHz	-54.92 dBm	-41.92 dB
725.000 MHz	1.000 GHz	100.000 kHz	747.39011 MHz	-55.03 dBm	-42.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-43.03 dBm	-30.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94476 GHz	-37.13 dBm	-24.13 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.57211 GHz	-43.65 dBm	-30.65 dB

Date: 23.AUG.2015 16:28:18

Middle Channel / QPSK

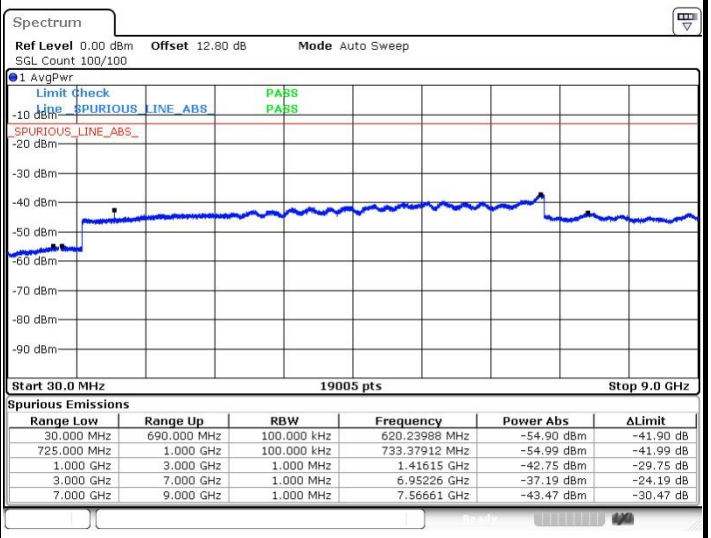


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	606.71664 MHz	-55.13 dBm	-42.13 dB
725.000 MHz	1.000 GHz	100.000 kHz	832.55495 MHz	-53.70 dBm	-40.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-41.33 dBm	-28.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95926 GHz	-37.07 dBm	-24.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.58360 GHz	-43.49 dBm	-30.49 dB

Date: 23.AUG.2015 16:30:03

Middle Channel / 16QAM



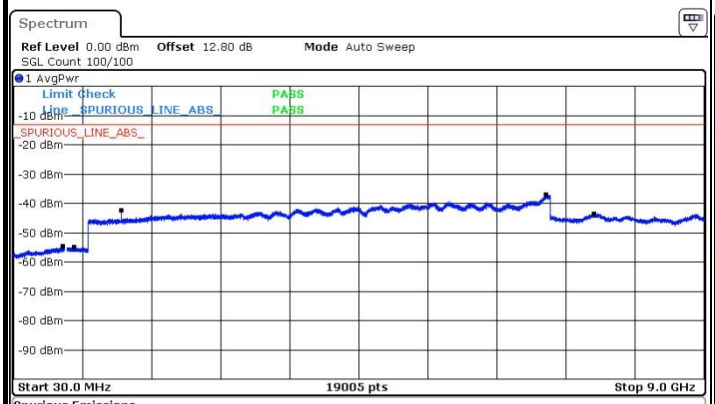
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	620.23988 MHz	-54.90 dBm	-41.90 dB
725.000 MHz	1.000 GHz	100.000 kHz	733.37912 MHz	-54.99 dBm	-41.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-42.75 dBm	-29.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95226 GHz	-37.19 dBm	-24.19 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56661 GHz	-43.47 dBm	-30.47 dB

Date: 23.AUG.2015 16:31:01

LTE Band 17 / 5MHz

Highest Channel / QPSK

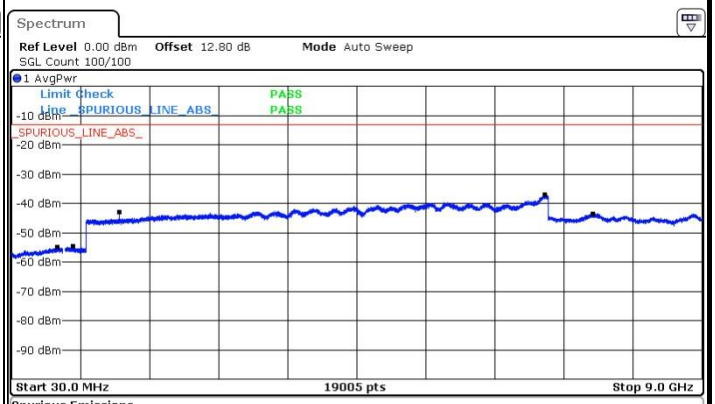


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	663.77811 MHz	-54.77 dBm	-41.77 dB
725.000 MHz	1.000 GHz	100.000 kHz	808.92857 MHz	-55.00 dBm	-42.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-42.36 dBm	-29.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94426 GHz	-37.02 dBm	-24.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.57411 GHz	-43.52 dBm	-30.52 dB

Date: 23.AUG.2015 16:40:23

Highest Channel / 16QAM



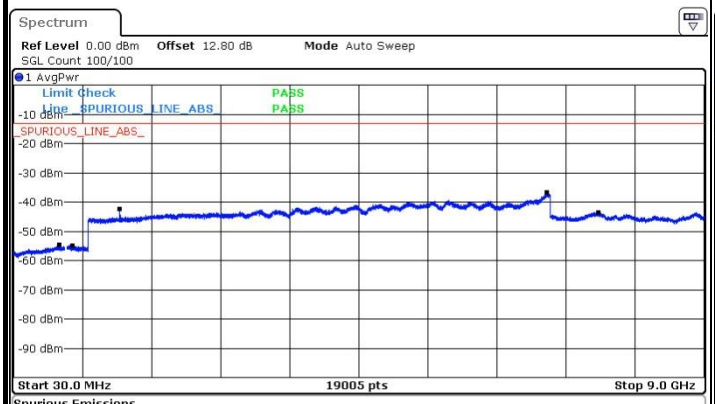
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	615.95202 MHz	-54.99 dBm	-41.99 dB
725.000 MHz	1.000 GHz	100.000 kHz	828.43407 MHz	-54.57 dBm	-41.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-42.90 dBm	-29.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96125 GHz	-37.11 dBm	-24.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.57911 GHz	-43.47 dBm	-30.47 dB

Date: 23.AUG.2015 16:41:21

LTE Band 17 / 10MHz

Lowest Channel / QPSK

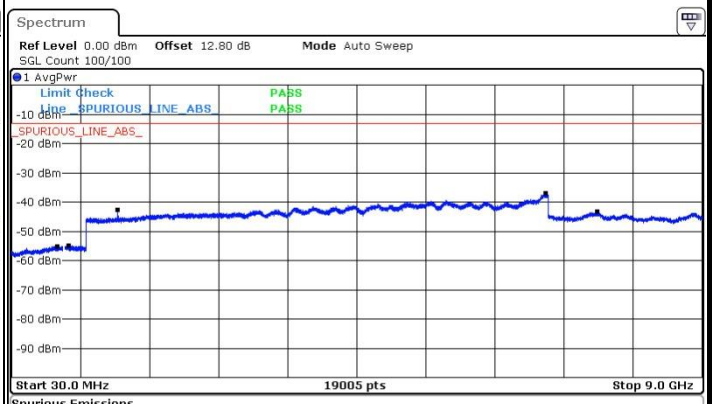


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	623.86807 MHz	-54.48 dBm	-41.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	787.77473 MHz	-54.88 dBm	-41.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-42.46 dBm	-29.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95626 GHz	-36.79 dBm	-23.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.62209 GHz	-43.62 dBm	-30.62 dB

Date: 23.AUG.2015 16:50:43

Lowest Channel / 16QAM



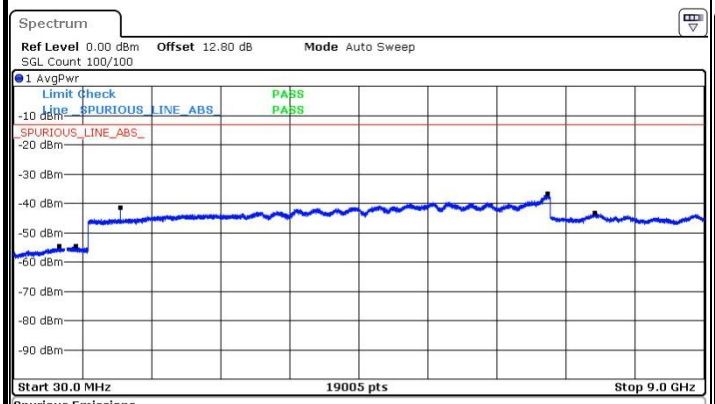
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	623.86807 MHz	-55.12 dBm	-42.12 dB
725.000 MHz	1.000 GHz	100.000 kHz	768.26923 MHz	-54.99 dBm	-41.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40965 GHz	-42.62 dBm	-29.62 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96975 GHz	-36.94 dBm	-23.94 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.64009 GHz	-43.38 dBm	-30.38 dB

Date: 23.AUG.2015 16:51:41

LTE Band 17 / 10MHz

Middle Channel / QPSK

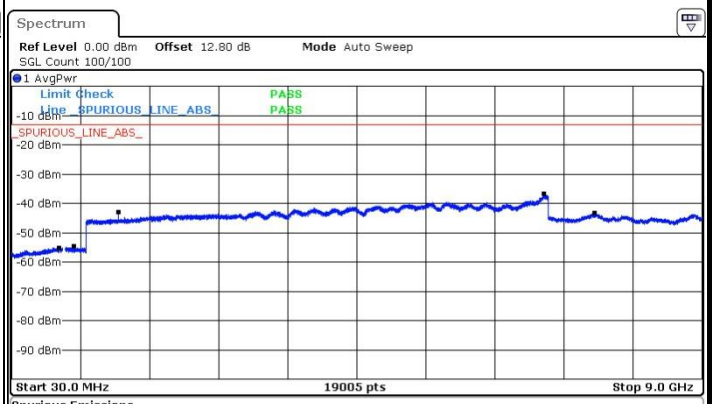


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	622.87856 MHz	-54.75 dBm	-41.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	835.30220 MHz	-54.58 dBm	-41.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-41.55 dBm	-28.55 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96575 GHz	-36.82 dBm	-23.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.58060 GHz	-43.41 dBm	-30.41 dB

Date: 23.AUG.2015 16:53:25

Middle Channel / 16QAM

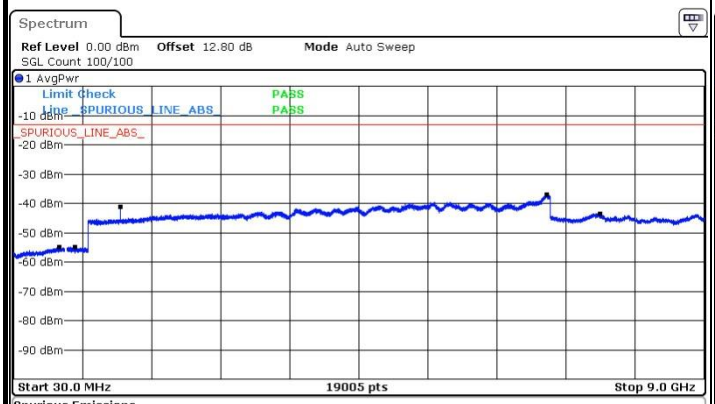


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	638.38081 MHz	-55.24 dBm	-42.24 dB
725.000 MHz	1.000 GHz	100.000 kHz	835.30220 MHz	-54.58 dBm	-41.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-42.97 dBm	-29.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94676 GHz	-36.79 dBm	-23.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.60860 GHz	-43.37 dBm	-30.37 dB

Date: 23.AUG.2015 16:54:23

Highest Channel / QPSK

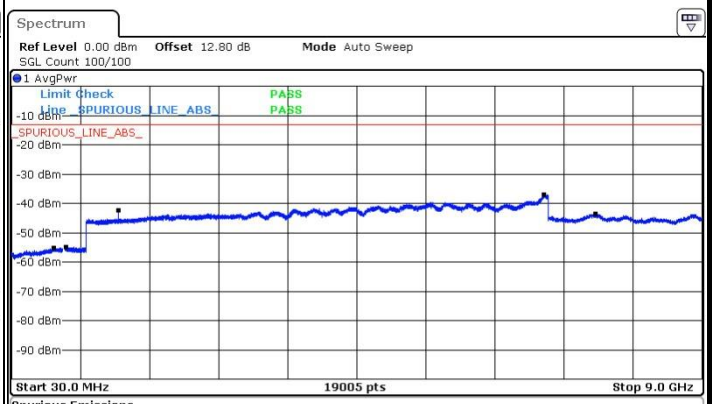


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.55922 MHz	-54.83 dBm	-41.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	829.25824 MHz	-54.96 dBm	-41.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-41.29 dBm	-28.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96075 GHz	-37.02 dBm	-24.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.64559 GHz	-43.56 dBm	-30.56 dB

Date: 23.AUG.2015 17:03:46

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	574.39280 MHz	-55.22 dBm	-42.22 dB
725.000 MHz	1.000 GHz	100.000 kHz	729.25824 MHz	-54.95 dBm	-41.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-42.41 dBm	-29.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94426 GHz	-36.89 dBm	-23.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.61160 GHz	-43.65 dBm	-30.65 dB

Date: 23.AUG.2015 17:04:44

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	0.0010	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0107	
0	Normal Voltage	0.0104	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0108	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0108	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.

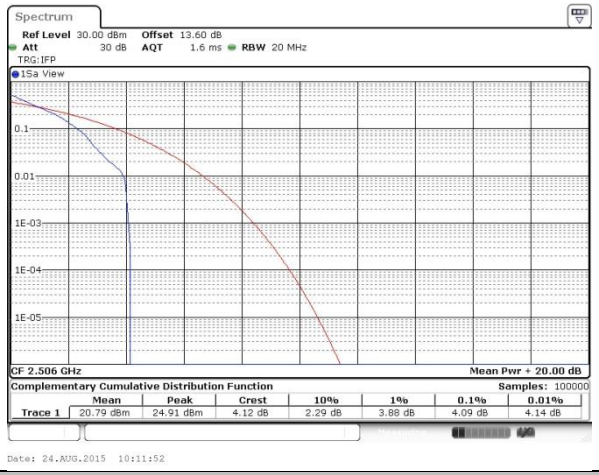
LTE Band 41

Peak-to-Average Ratio

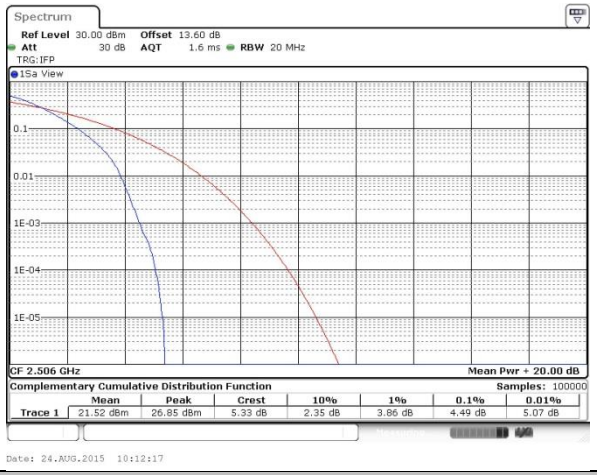
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.09	4.49	4.90	5.36	PASS
Middle CH	3.04	4.29	4.26	5.19	
Highest CH	3.59	4.58	4.32	5.51	

LTE Band 41 / 20MHz / QPSK

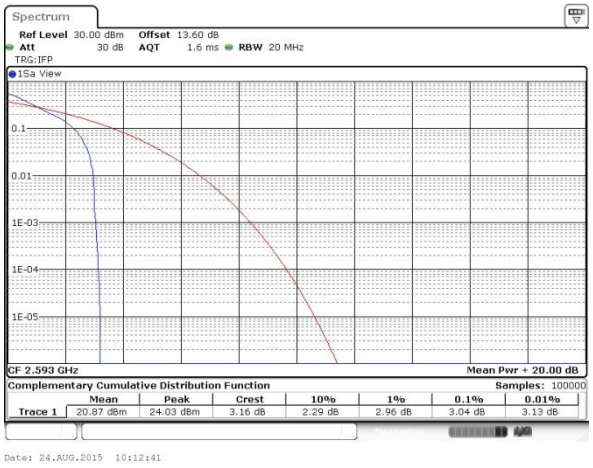
Lowest Channel / 1RB



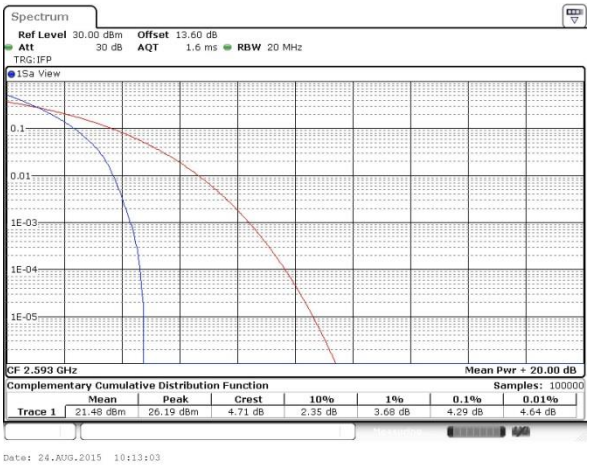
Lowest Channel / Full RB



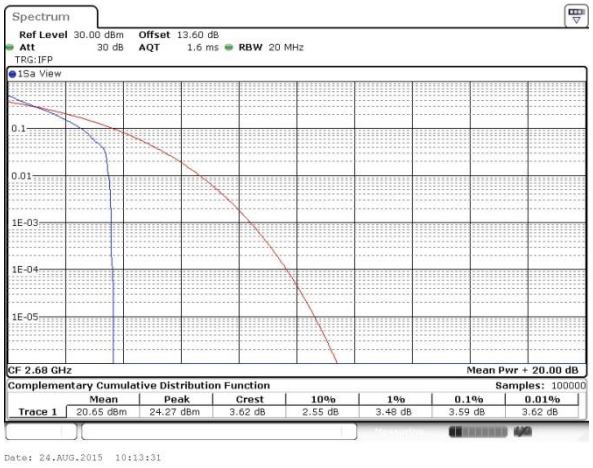
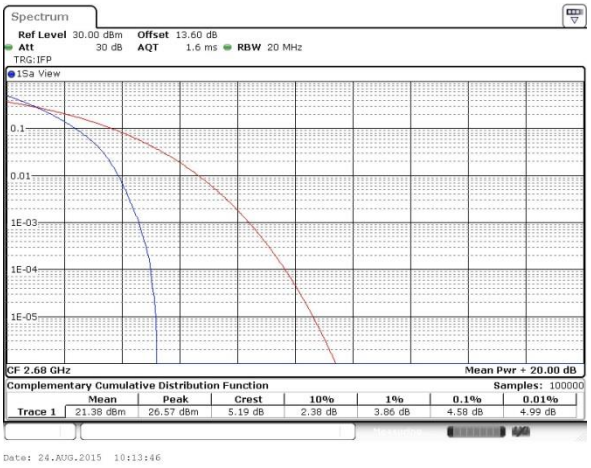
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB