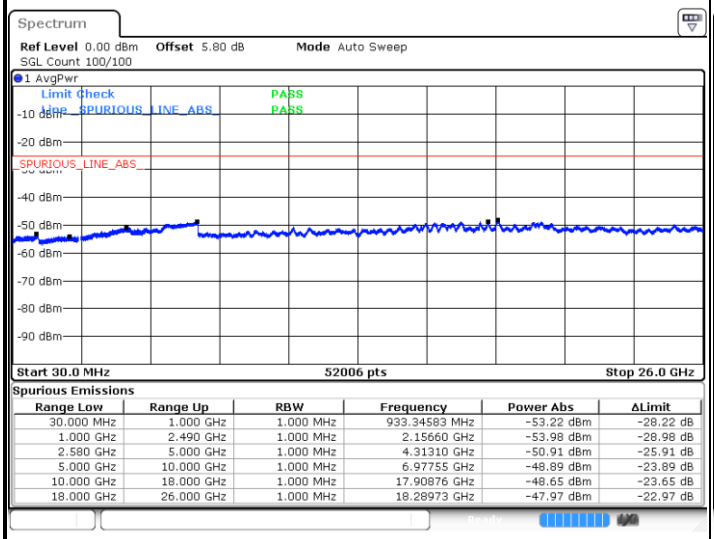
LTE Band 7 / 10MHz

Middle Channel / QPSK

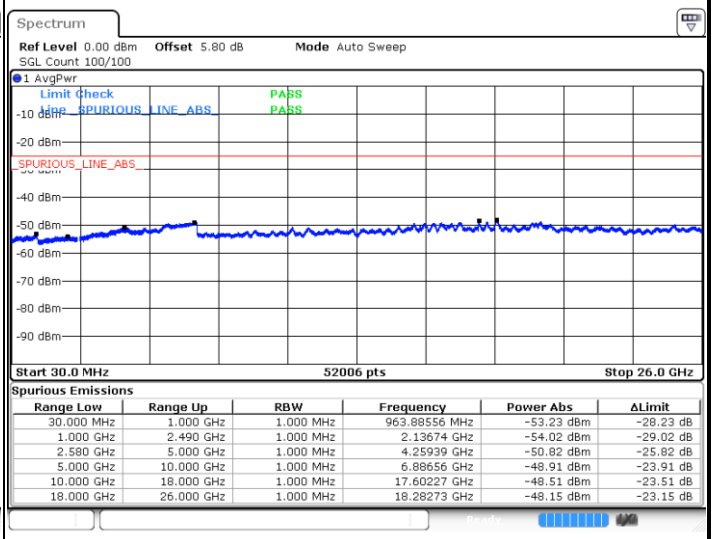


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	933.34583 MHz	-53.22 dBm	-28.22 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.15660 GHz	-53.98 dBm	-28.98 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31310 GHz	-50.91 dBm	-25.91 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.97755 GHz	-48.89 dBm	-23.89 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.90876 GHz	-48.65 dBm	-23.65 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.28973 GHz	-47.97 dBm	-22.97 dB

Date: 4.DEC.2019 11:57:31

Middle Channel / 16QAM

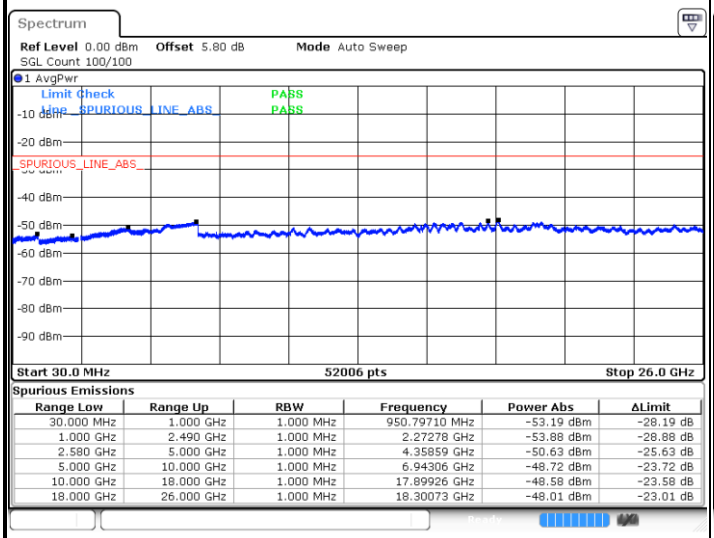


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.88556 MHz	-53.23 dBm	-28.23 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.13674 GHz	-54.02 dBm	-29.02 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.25939 GHz	-50.82 dBm	-25.82 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.88656 GHz	-48.91 dBm	-23.91 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.60227 GHz	-48.51 dBm	-23.51 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.28273 GHz	-48.15 dBm	-23.15 dB

Date: 4.DEC.2019 11:56:38

Highest Channel / QPSK

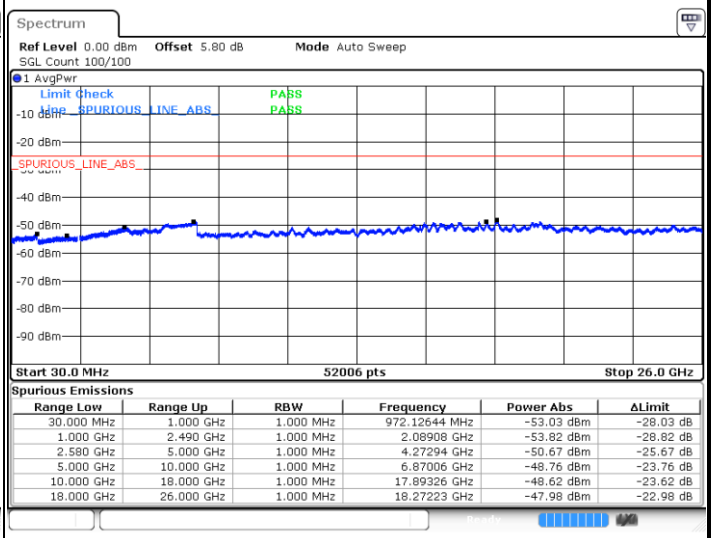


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	950.79710 MHz	-53.19 dBm	-28.19 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.27278 GHz	-53.88 dBm	-28.88 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.35859 GHz	-50.63 dBm	-25.63 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.94306 GHz	-48.72 dBm	-23.72 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.89926 GHz	-48.58 dBm	-23.58 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.30073 GHz	-48.01 dBm	-23.01 dB

Date: 4.DEC.2019 11:58:24

Highest Channel / 16QAM



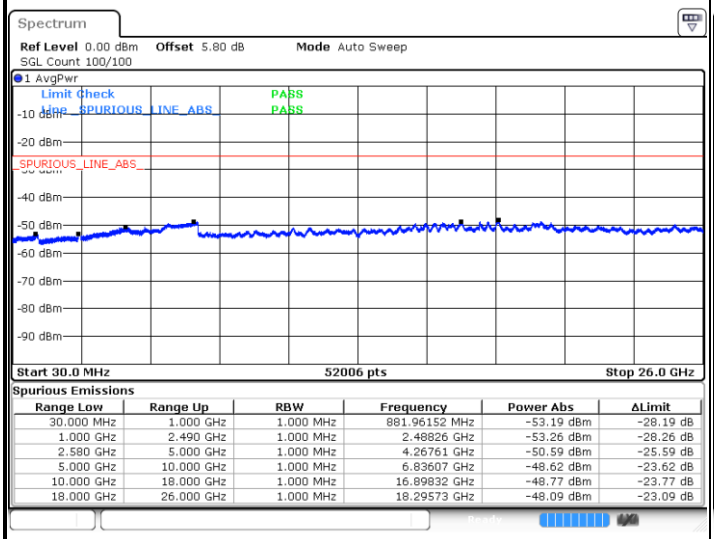
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	972.12644 MHz	-53.03 dBm	-28.03 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.08908 GHz	-53.82 dBm	-28.82 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.27294 GHz	-50.67 dBm	-25.67 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.87006 GHz	-48.76 dBm	-23.76 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.89326 GHz	-48.62 dBm	-23.62 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.27223 GHz	-47.98 dBm	-22.98 dB

Date: 4.DEC.2019 11:59:17

LTE Band 7 / 15MHz

Lowest Channel / QPSK

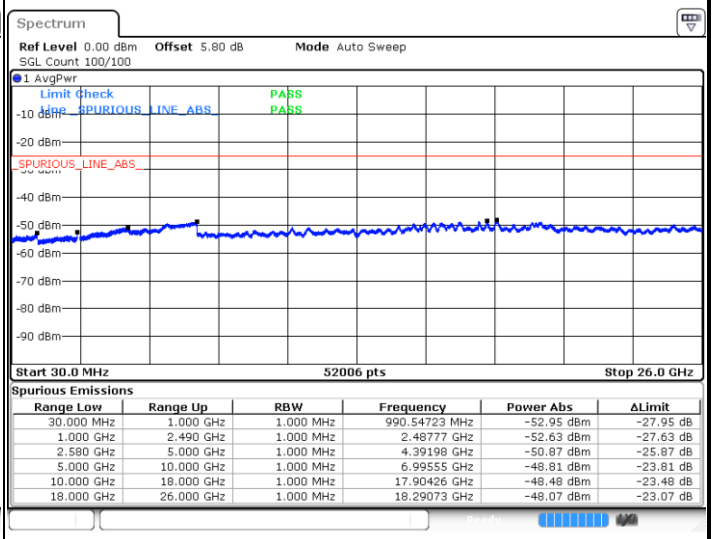


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	881.96152 MHz	-53.19 dBm	-28.19 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48826 GHz	-53.26 dBm	-28.26 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.26761 GHz	-50.59 dBm	-25.59 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.83607 GHz	-48.62 dBm	-23.62 dB
10.000 GHz	18.000 GHz	1.000 MHz	16.89832 GHz	-48.77 dBm	-23.77 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.29573 GHz	-48.09 dBm	-23.09 dB

Date: 4.DEC.2019 14:54:24

Lowest Channel / 16QAM

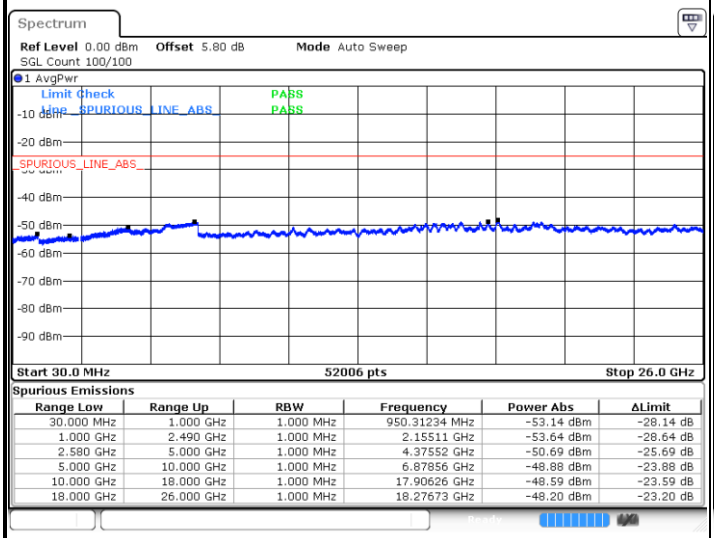


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.54723 MHz	-52.95 dBm	-27.95 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48777 GHz	-52.63 dBm	-27.63 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.39198 GHz	-50.87 dBm	-25.87 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99555 GHz	-48.81 dBm	-23.81 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.90426 GHz	-48.48 dBm	-23.48 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.29073 GHz	-48.07 dBm	-23.07 dB

Date: 4.DEC.2019 14:55:17

Middle Channel / QPSK

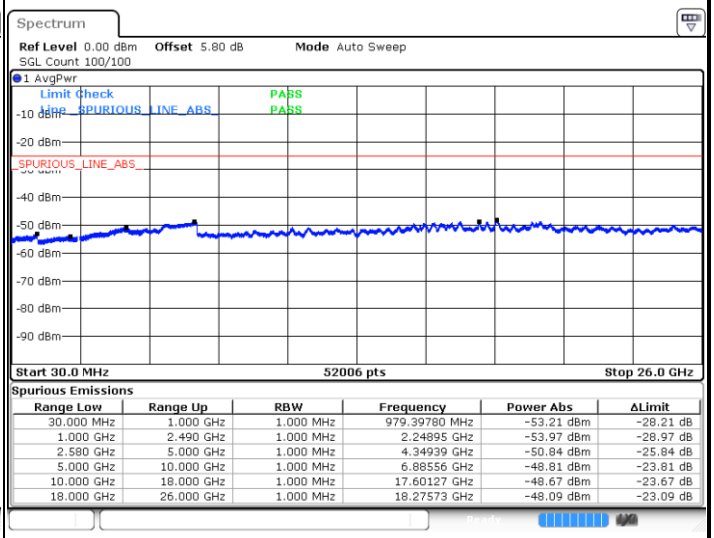


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	950.31234 MHz	-53.14 dBm	-28.14 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.15511 GHz	-53.64 dBm	-28.64 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.37552 GHz	-50.69 dBm	-25.69 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.87856 GHz	-48.88 dBm	-23.88 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.90626 GHz	-48.59 dBm	-23.59 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.27673 GHz	-48.20 dBm	-23.20 dB

Date: 4.DEC.2019 14:57:03

Middle Channel / 16QAM



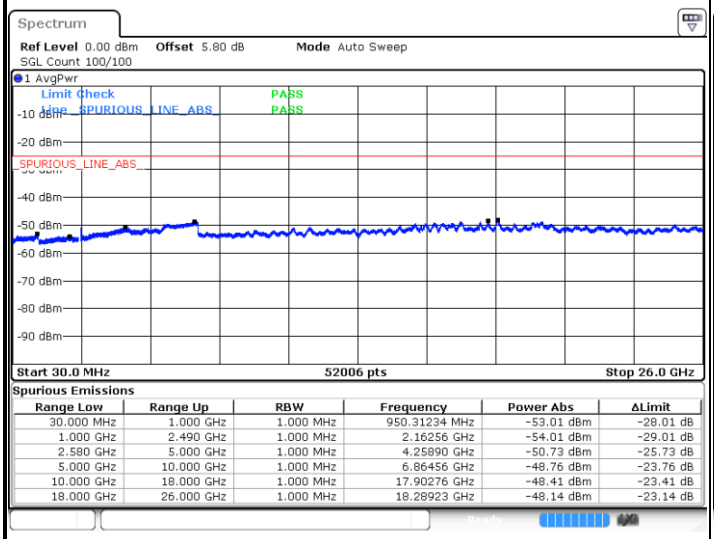
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-53.21 dBm	-28.21 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.24895 GHz	-53.97 dBm	-28.97 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.34939 GHz	-50.84 dBm	-25.84 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.88556 GHz	-48.81 dBm	-23.81 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.60127 GHz	-48.67 dBm	-23.67 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.27573 GHz	-48.09 dBm	-23.09 dB

Date: 4.DEC.2019 14:56:10

LTE Band7 / 15MHz

Highest Channel / QPSK

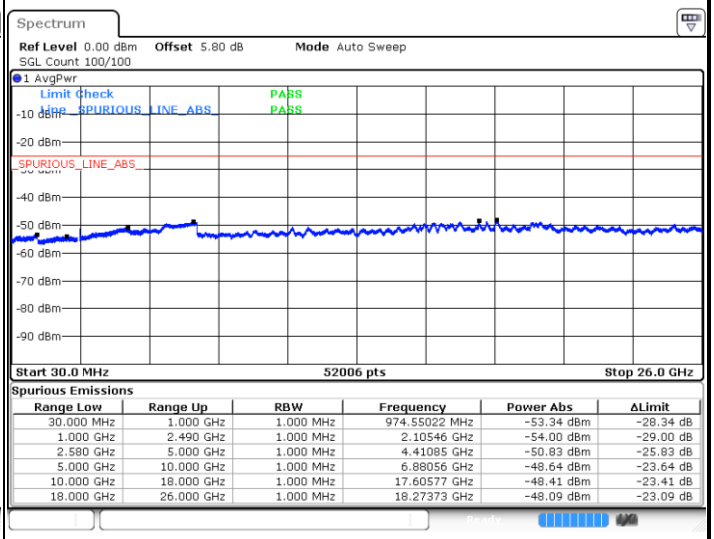


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	950.31234 MHz	-53.01 dBm	-28.01 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.16256 GHz	-54.01 dBm	-29.01 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.25890 GHz	-50.73 dBm	-25.73 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.86456 GHz	-48.76 dBm	-23.76 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.90276 GHz	-48.41 dBm	-23.41 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.28923 GHz	-48.14 dBm	-23.14 dB

Date: 4.DEC.2019 14:57:56

Highest Channel / 16QAM



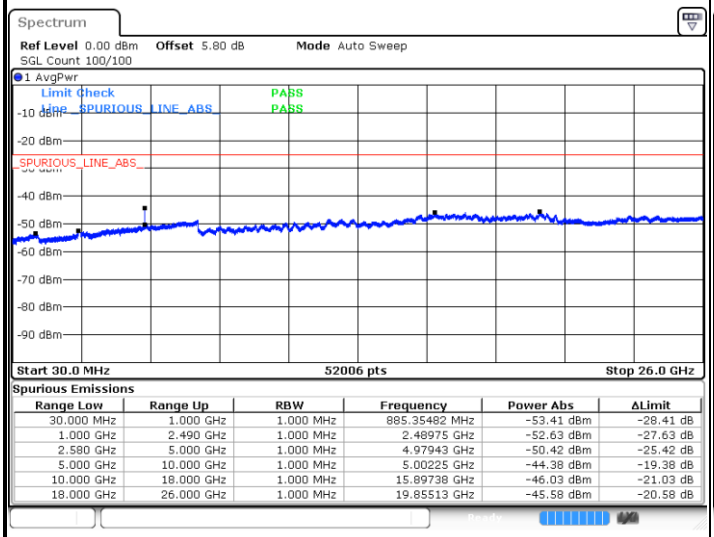
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.55022 MHz	-53.34 dBm	-28.34 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.10546 GHz	-54.00 dBm	-29.00 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.41085 GHz	-50.83 dBm	-25.83 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.88056 GHz	-48.64 dBm	-23.64 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.60577 GHz	-48.41 dBm	-23.41 dB
18.000 GHz	26.000 GHz	1.000 MHz	18.27373 GHz	-48.09 dBm	-23.09 dB

Date: 4.DEC.2019 14:58:49

LTE Band 7 / 20MHz

Lowest Channel / QPSK

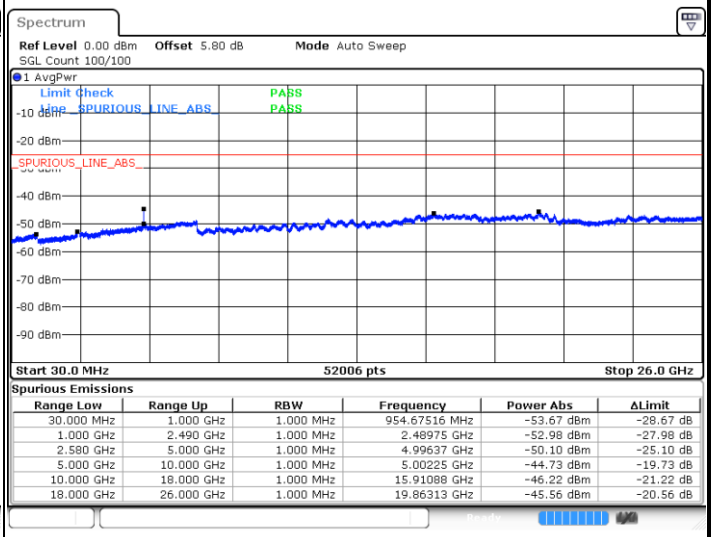


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	885.35482 MHz	-53.41 dBm	-28.41 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48975 GHz	-52.63 dBm	-27.63 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.97943 GHz	-50.42 dBm	-25.42 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00225 GHz	-44.38 dBm	-19.38 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.89738 GHz	-46.03 dBm	-21.03 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.85513 GHz	-45.58 dBm	-20.58 dB

Date: 4.DEC.2019 15:24:19

Lowest Channel / 16QAM



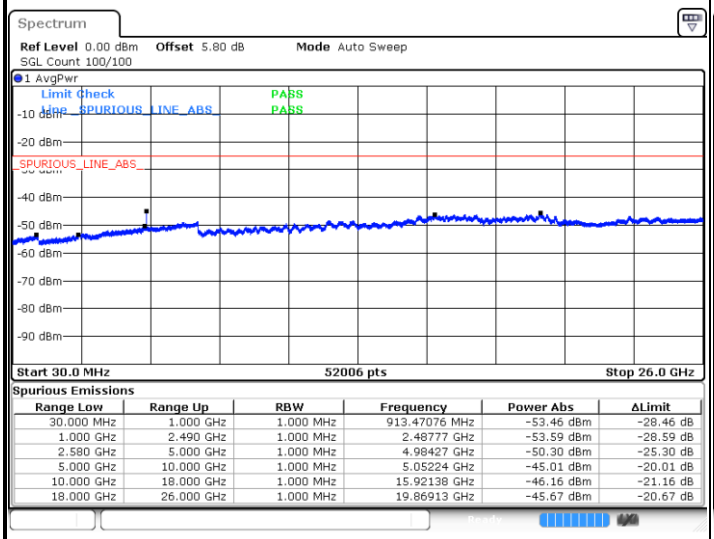
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	954.67516 MHz	-53.67 dBm	-28.67 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48975 GHz	-52.98 dBm	-27.98 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.99637 GHz	-50.10 dBm	-25.10 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00225 GHz	-44.73 dBm	-19.73 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.91088 GHz	-46.22 dBm	-21.22 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.86313 GHz	-45.56 dBm	-20.56 dB

Date: 4.DEC.2019 15:25:13

LTE Band 7 / 20MHz

Middle Channel / QPSK

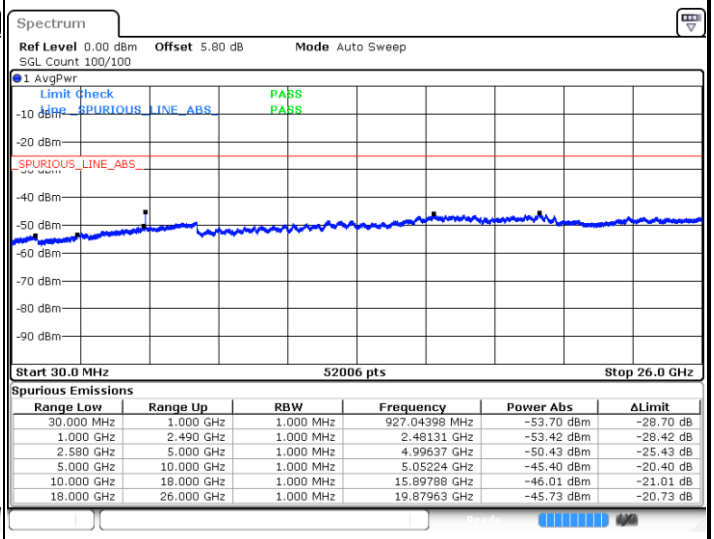


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	913.47076 MHz	-53.46 dBm	-28.46 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48777 GHz	-53.59 dBm	-28.59 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.98427 GHz	-50.30 dBm	-25.30 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.05224 GHz	-45.01 dBm	-20.01 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.92138 GHz	-46.16 dBm	-21.16 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.86913 GHz	-45.67 dBm	-20.67 dB

Date: 4.DEC.2019 15:27:00

Middle Channel / 16QAM

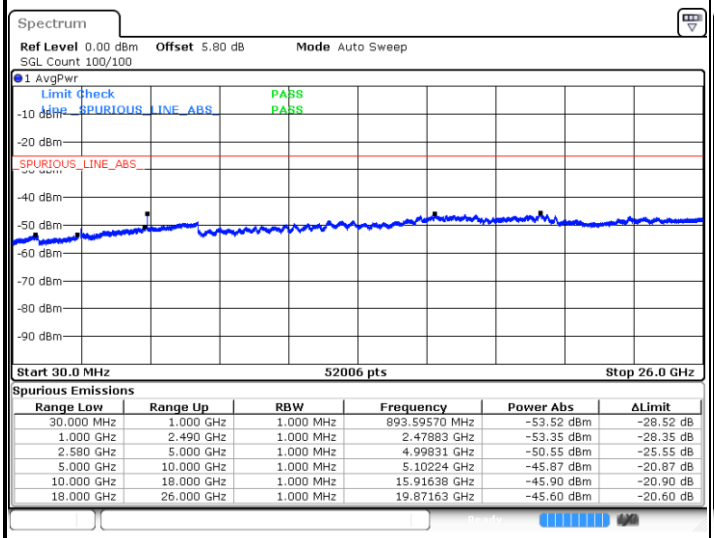


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	927.04398 MHz	-53.70 dBm	-28.70 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48131 GHz	-53.42 dBm	-28.42 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.99637 GHz	-50.43 dBm	-25.43 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.05224 GHz	-45.40 dBm	-20.40 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.89788 GHz	-46.01 dBm	-21.01 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.87963 GHz	-45.73 dBm	-20.73 dB

Date: 4.DEC.2019 15:26:07

Highest Channel / QPSK

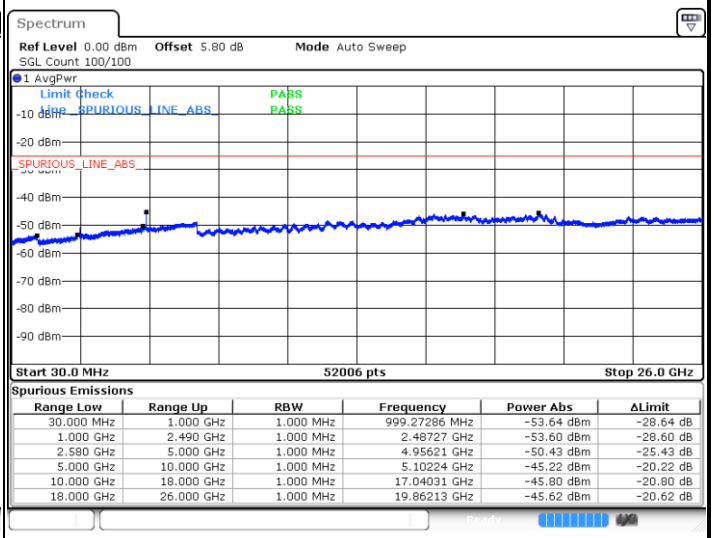


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	893.59570 MHz	-53.52 dBm	-28.52 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47883 GHz	-53.35 dBm	-28.35 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.99831 GHz	-50.55 dBm	-25.55 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.10224 GHz	-45.87 dBm	-20.87 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.91638 GHz	-45.90 dBm	-20.90 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.87163 GHz	-45.60 dBm	-20.60 dB

Date: 4.DEC.2019 15:27:54

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	999.27286 MHz	-53.64 dBm	-28.64 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48727 GHz	-53.60 dBm	-28.60 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.95621 GHz	-50.43 dBm	-25.43 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.10224 GHz	-45.22 dBm	-20.22 dB
10.000 GHz	18.000 GHz	1.000 MHz	17.04031 GHz	-45.80 dBm	-20.80 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.86213 GHz	-45.62 dBm	-20.62 dB

Date: 4.DEC.2019 15:28:48

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	0.0033	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0039	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

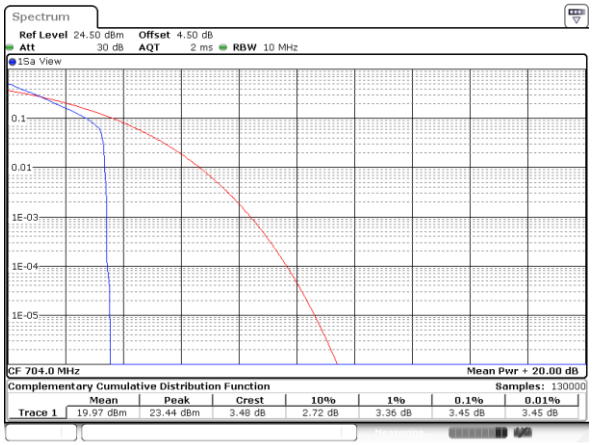
LTE Band 12

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	3.45	4.41	5.13	5.68	PASS
Middle CH	3.42	4.58	4.81	5.74	
Highest CH	3.48	4.58	4.81	5.71	

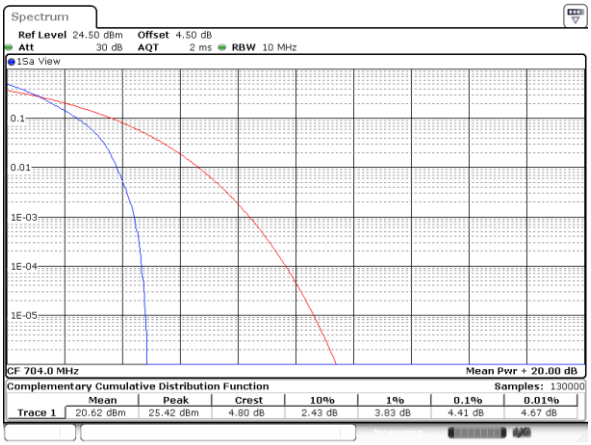
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



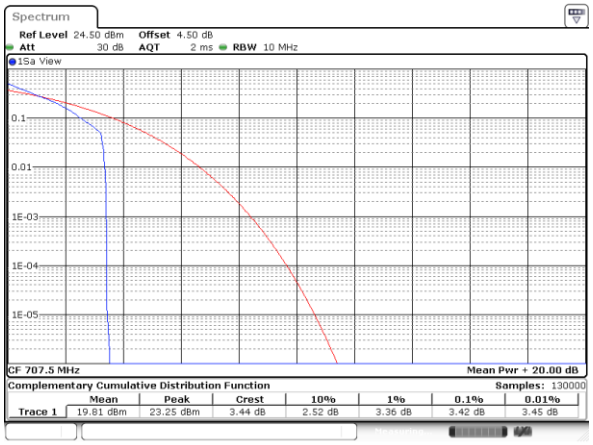
Date: 4.DEC.2019 17:15:10

Lowest Channel / Full RB



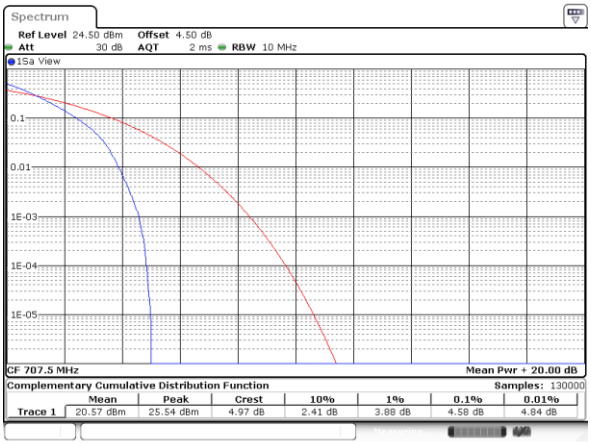
Date: 4.DEC.2019 17:15:19

Middle Channel / 1RB



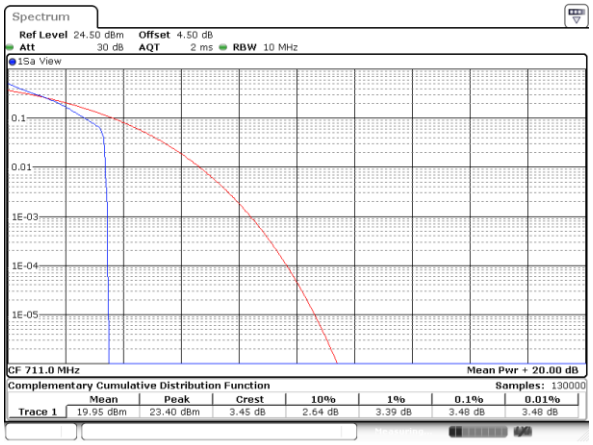
Date: 4.DEC.2019 17:16:02

Middle Channel / Full RB



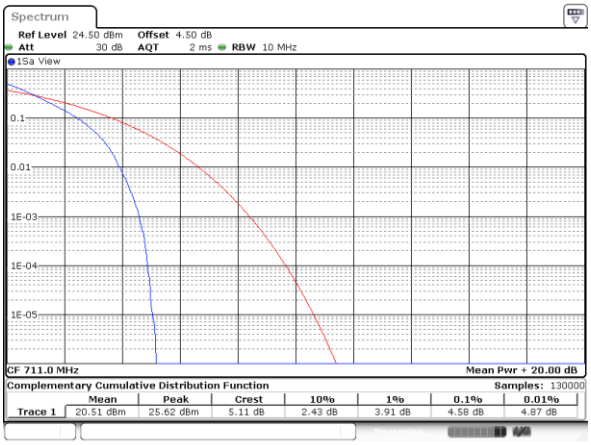
Date: 4.DEC.2019 17:15:46

Highest Channel / 1RB



Date: 4.DEC.2019 17:16:29

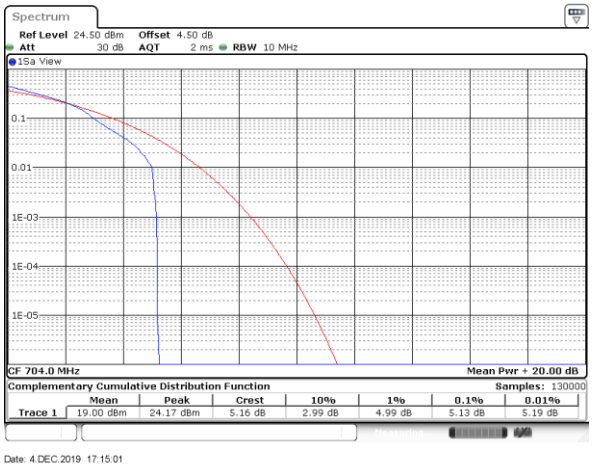
Highest Channel / Full RB



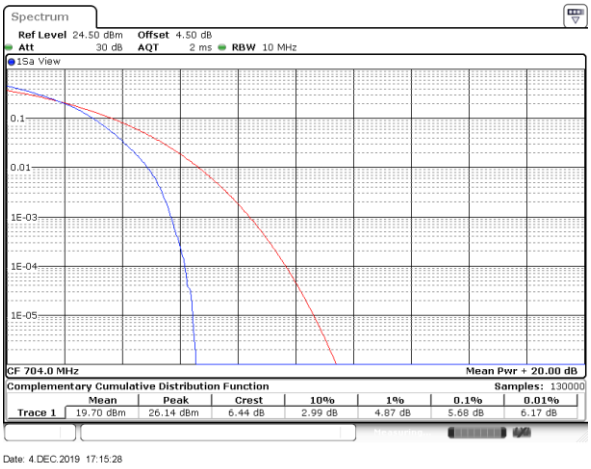
Date: 4.DEC.2019 17:16:38

LTE Band 12 / 10MHz / 16QAM

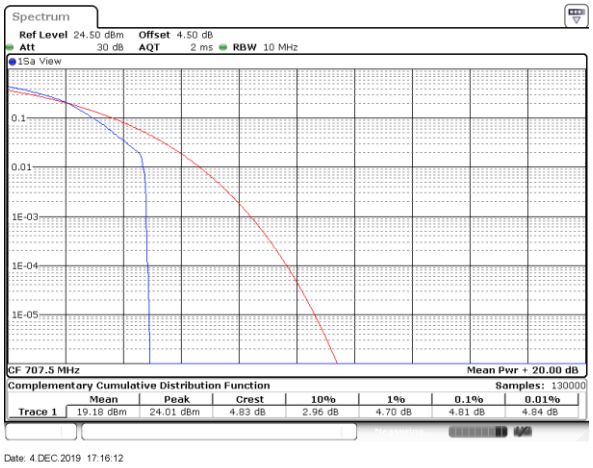
Lowest Channel / 1RB



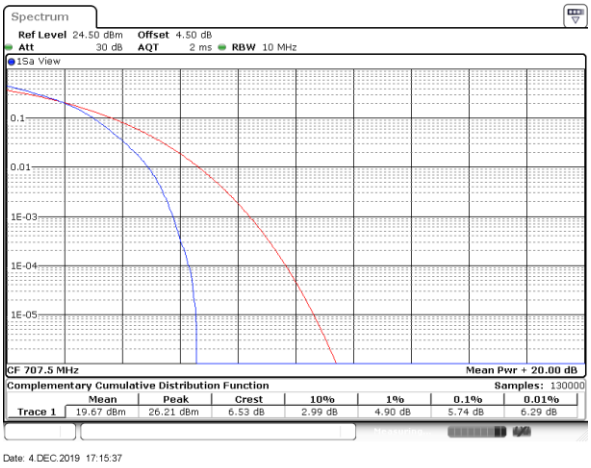
Lowest Channel / Full RB



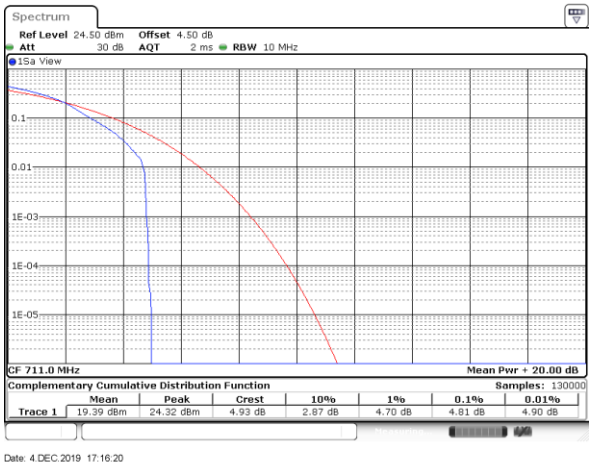
Middle Channel / 1RB



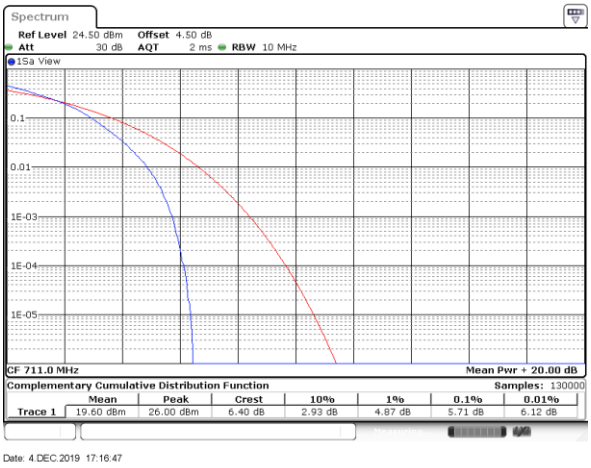
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

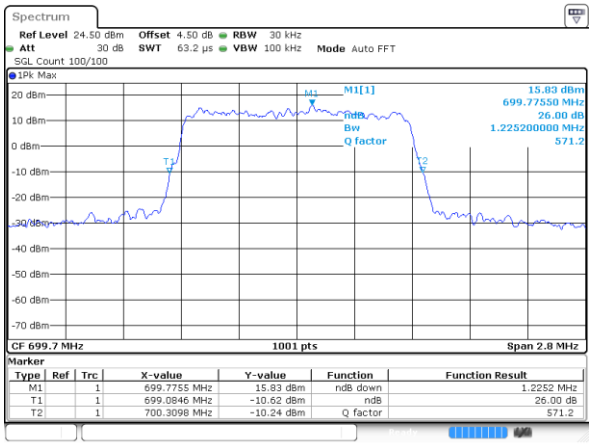


26dB Bandwidth

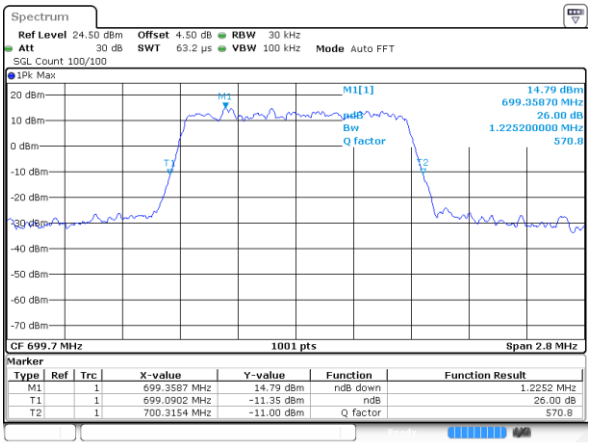
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.2252	1.2252	3.039	2.997	4.955	4.895	9.73	9.63				
Middle CH	1.2308	1.228	3.039	3.0509	4.865	4.925	9.75	9.77				
Highest CH	1.2336	1.2224	2.979	3.033	4.895	4.875	9.81	9.65				

LTE Band 12

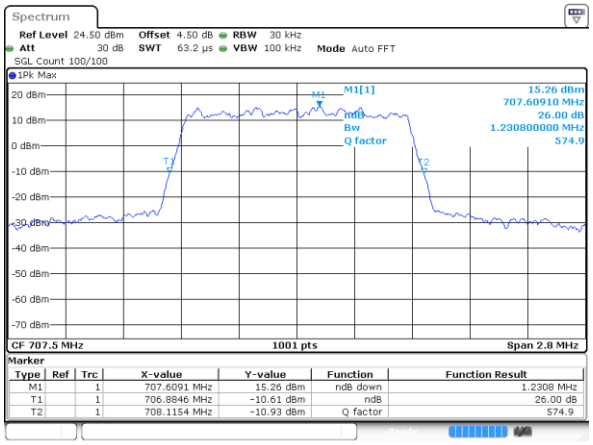
Lowest Channel / 1.4MHz / QPSK



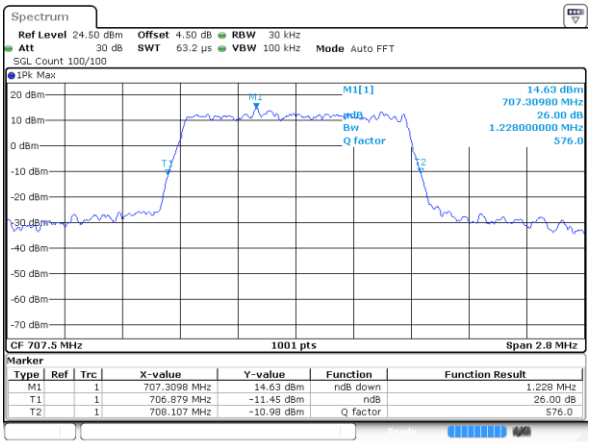
Lowest Channel / 1.4MHz / 16QAM



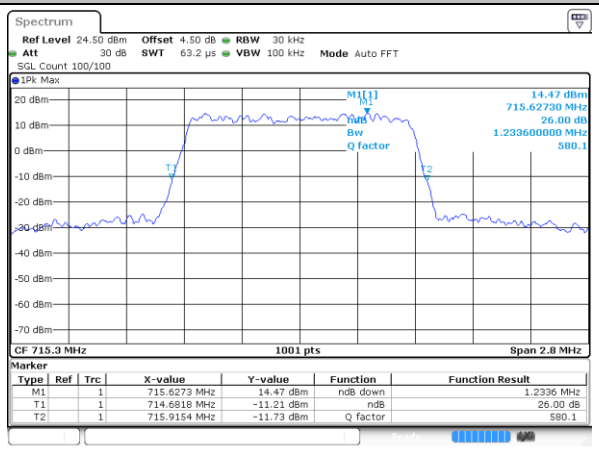
Middle Channel / 1.4MHz / QPSK



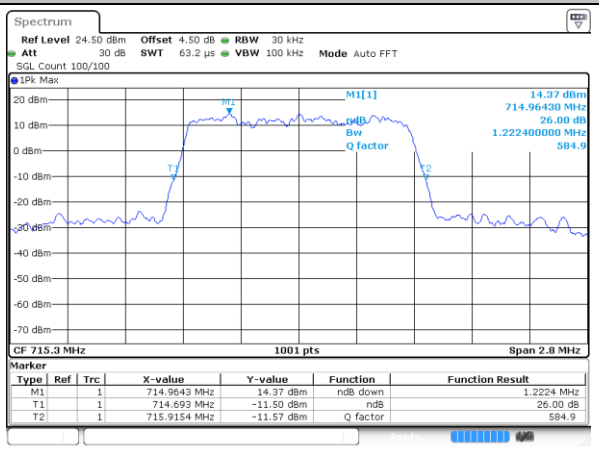
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

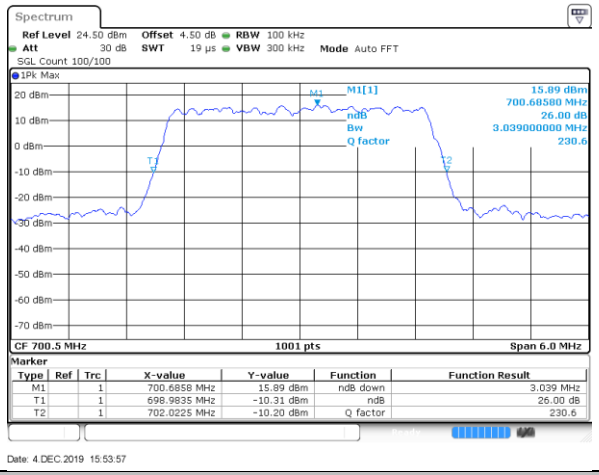


Highest Channel / 1.4MHz / 16QAM

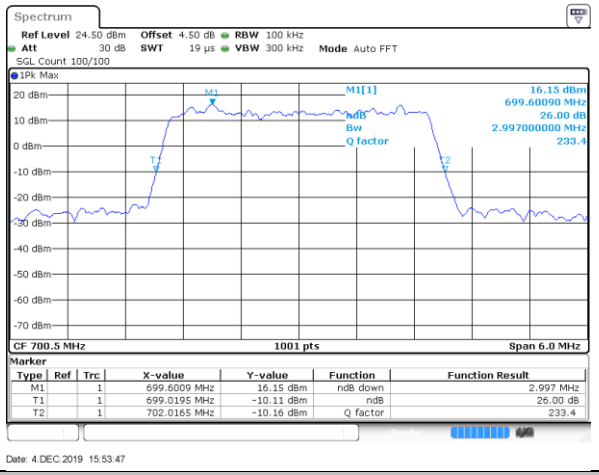


LTE Band 12

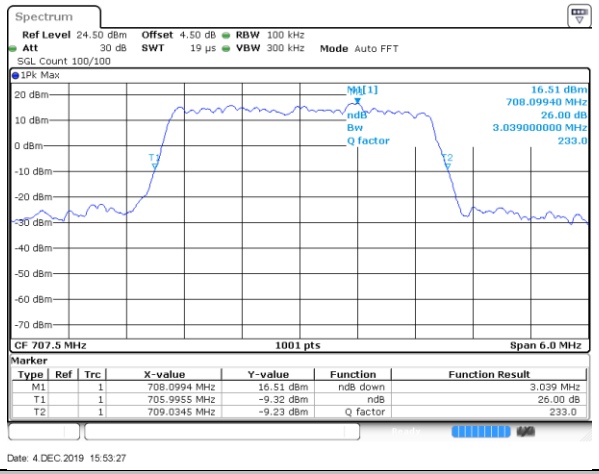
Lowest Channel / 3MHz / QPSK



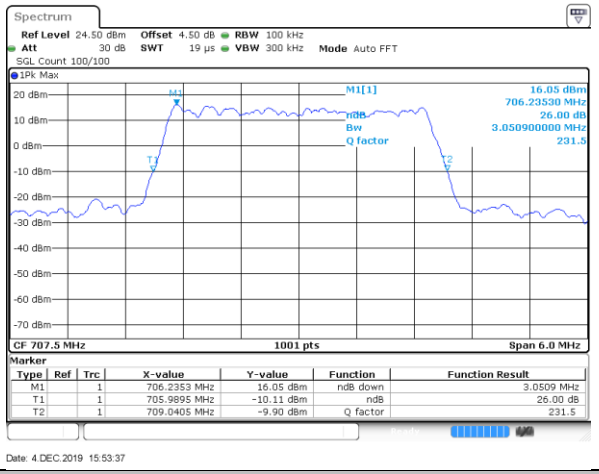
Lowest Channel / 3MHz / 16QAM



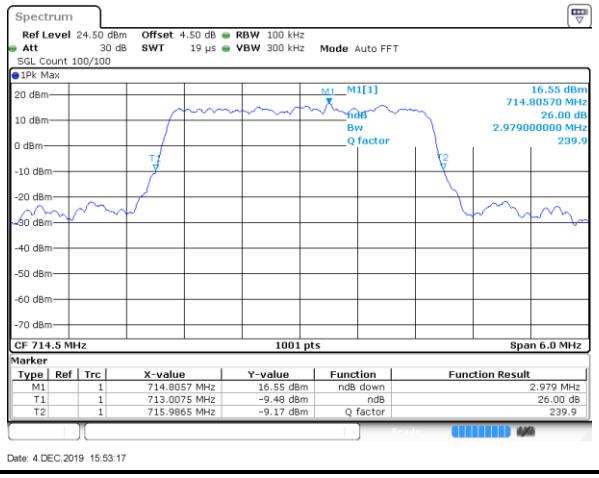
Middle Channel / 3MHz / QPSK



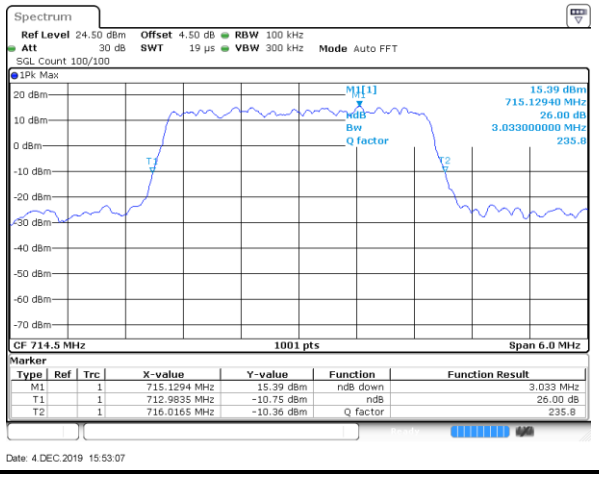
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

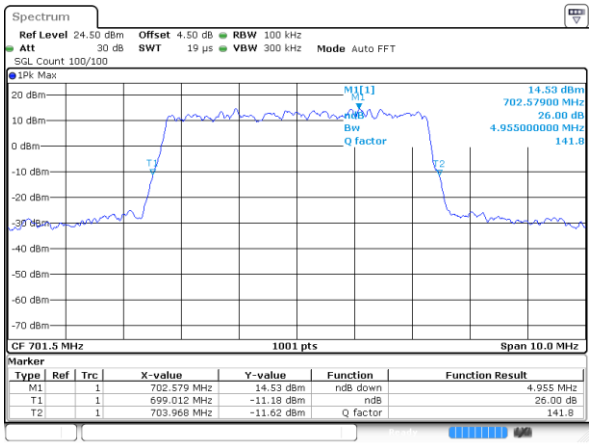


Highest Channel / 3MHz / 16QAM

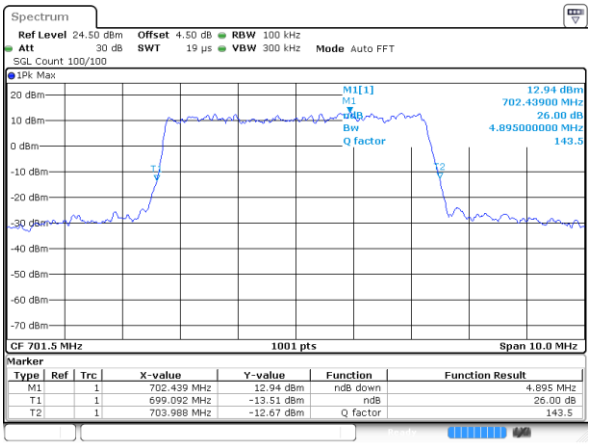


LTE Band 12

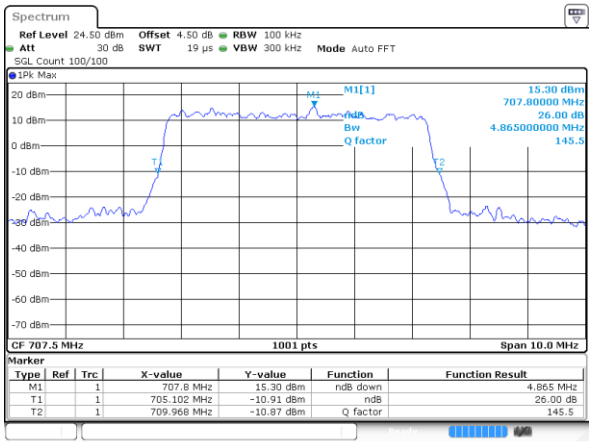
Lowest Channel / 5MHz / QPSK



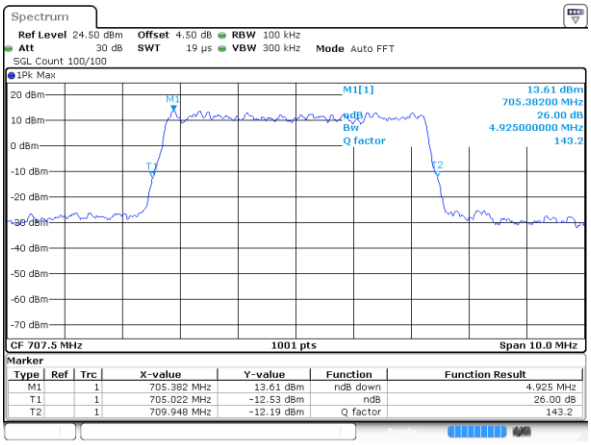
Lowest Channel / 5MHz / 16QAM



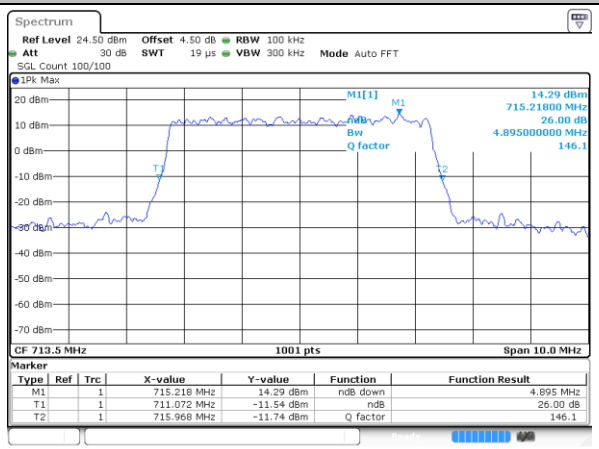
Middle Channel / 5MHz / QPSK



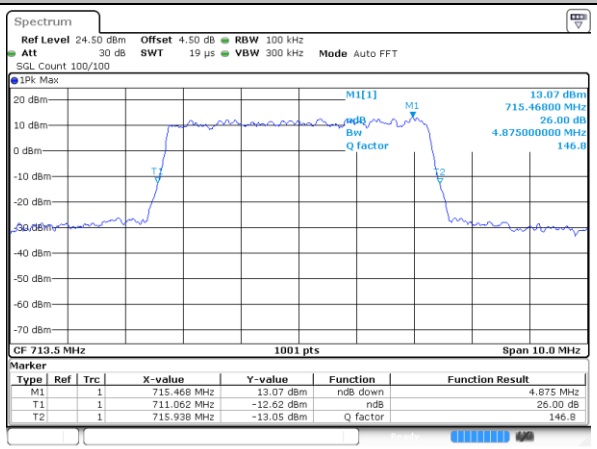
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

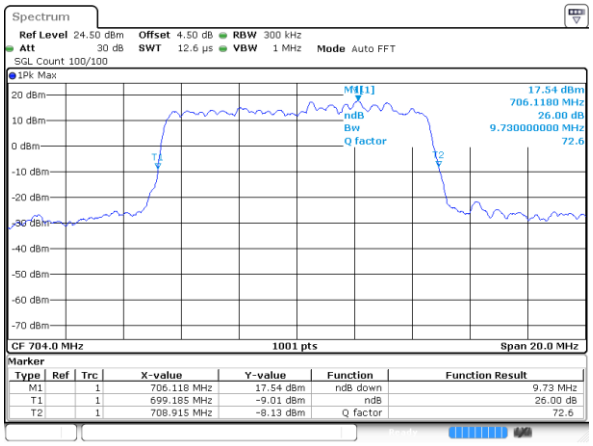


Highest Channel / 5MHz / 16QAM

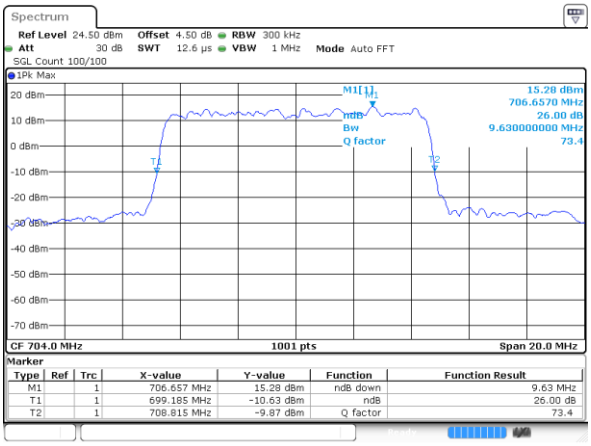


LTE Band 12

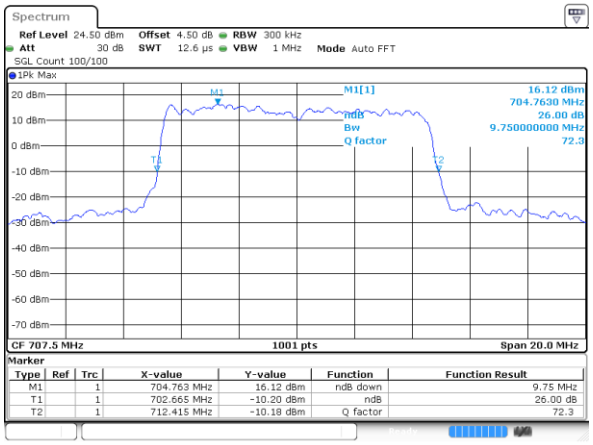
Lowest Channel / 10MHz / QPSK



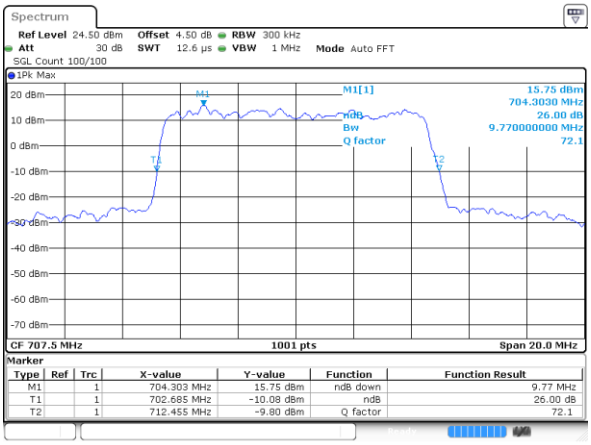
Lowest Channel / 10MHz / 16QAM



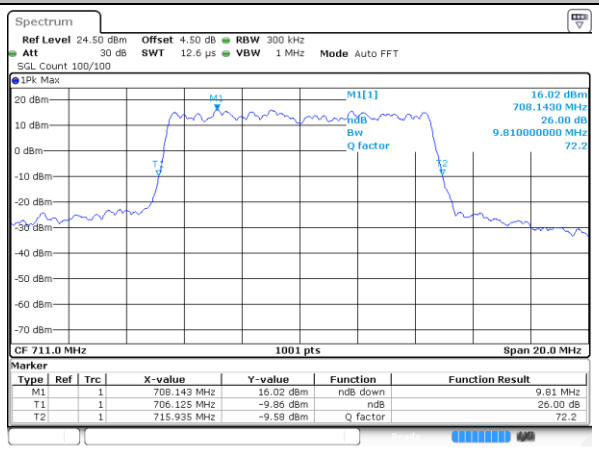
Middle Channel / 10MHz / QPSK



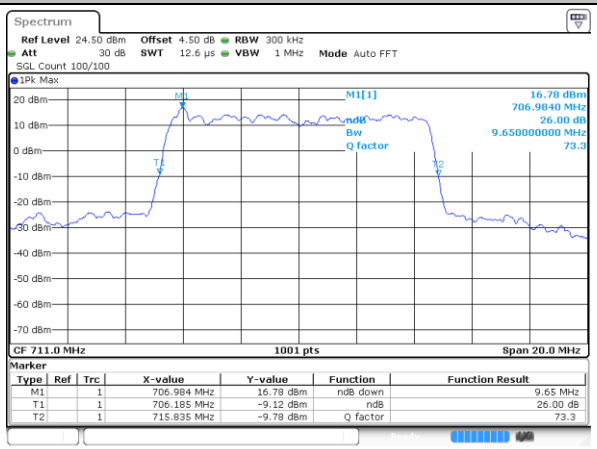
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

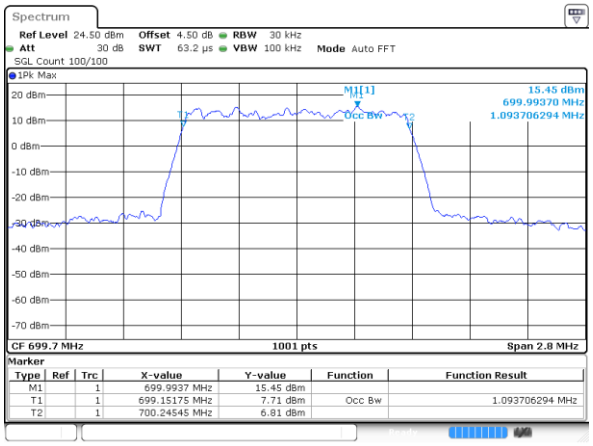


Occupied Bandwidth

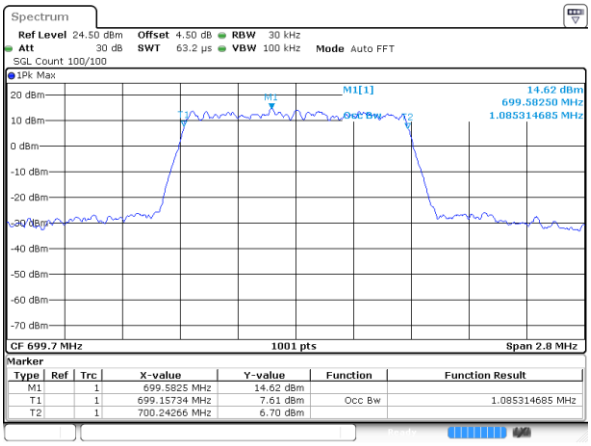
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.09	1.09	2.71	2.70	4.50	4.49	9.03	9.03				
Middle CH	1.09	1.08	2.72	2.72	4.49	4.49	9.03	8.97				
Highest CH	1.09	1.09	2.72	2.70	4.48	4.49	9.05	9.05				

LTE Band 12

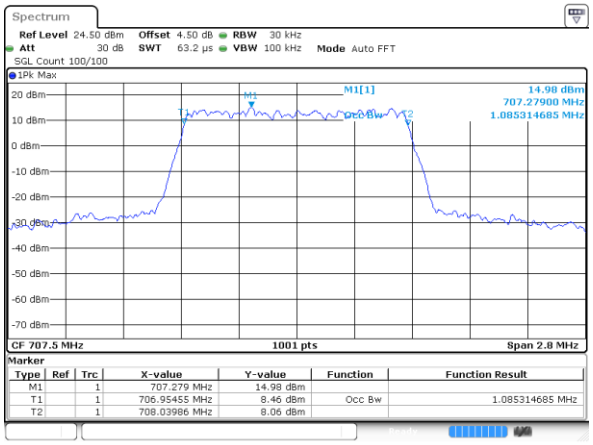
Lowest Channel / 1.4MHz / QPSK



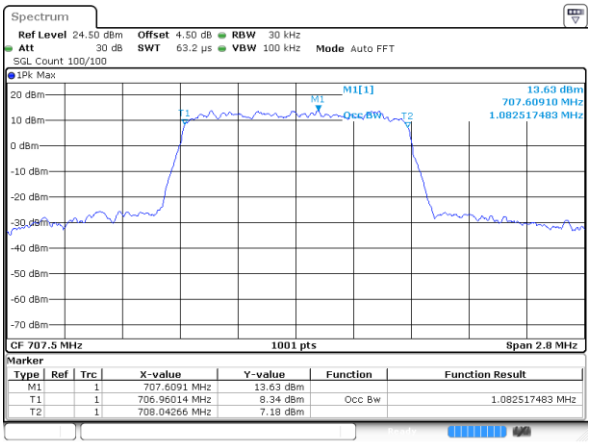
Lowest Channel / 1.4MHz / 16QAM



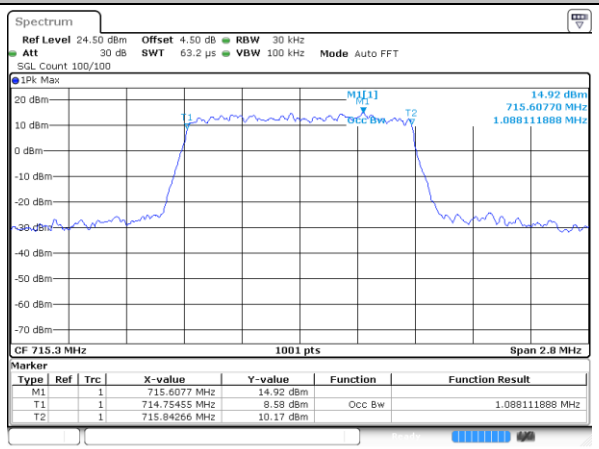
Middle Channel / 1.4MHz / QPSK



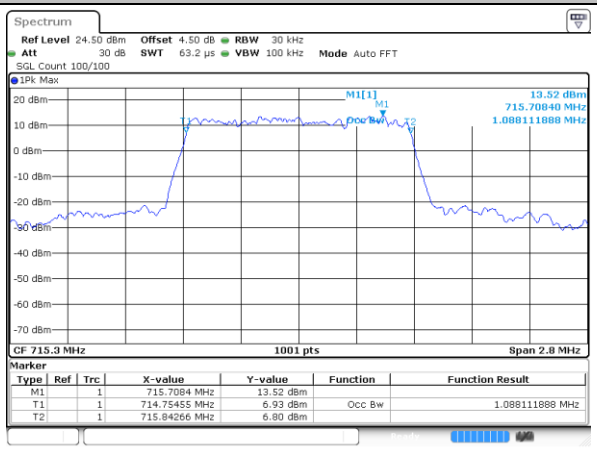
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

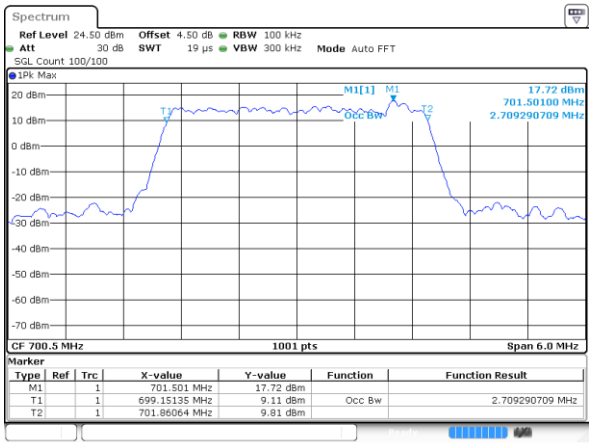


Highest Channel / 1.4MHz / 16QAM

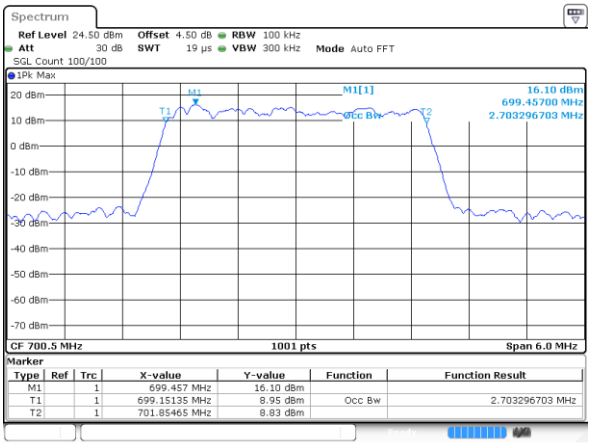


LTE Band 12

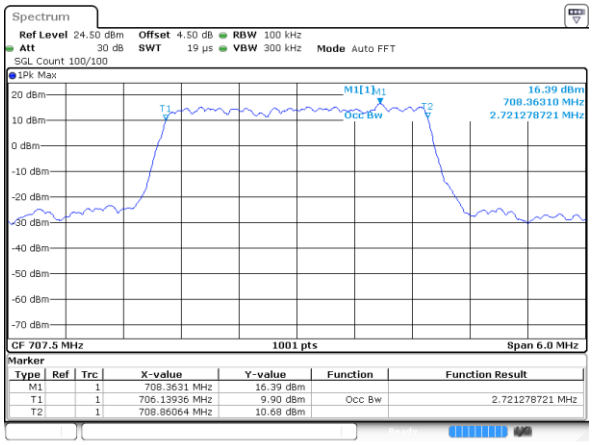
Lowest Channel / 3MHz / QPSK



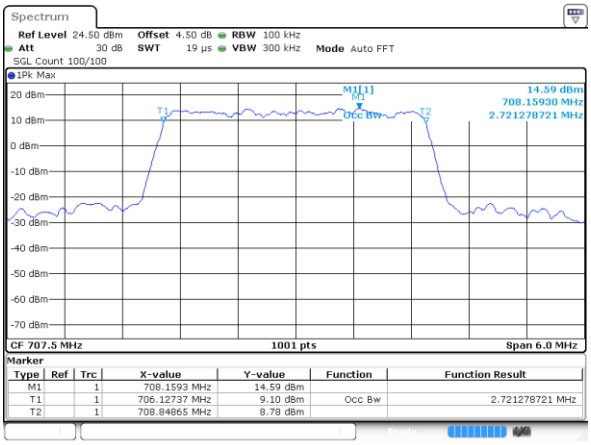
Lowest Channel / 3MHz / 16QAM



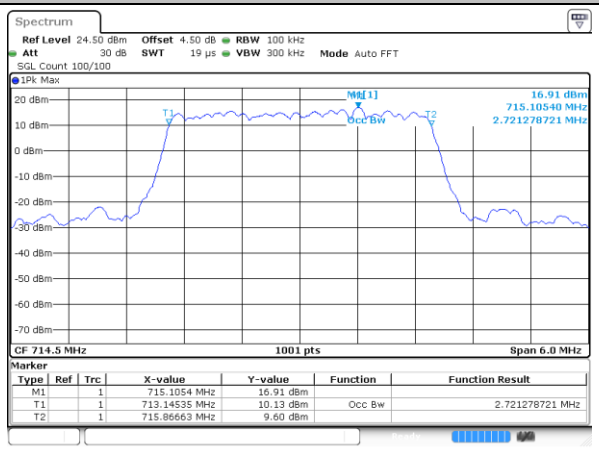
Middle Channel / 3MHz / QPSK



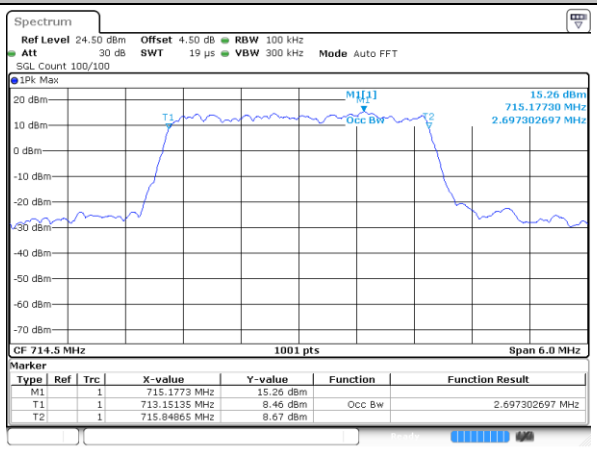
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

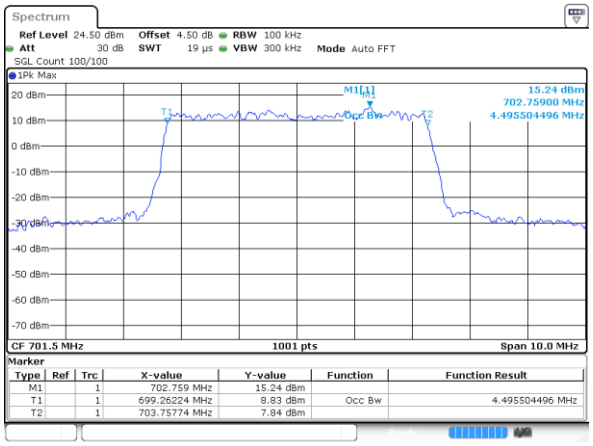


Highest Channel / 3MHz / 16QAM

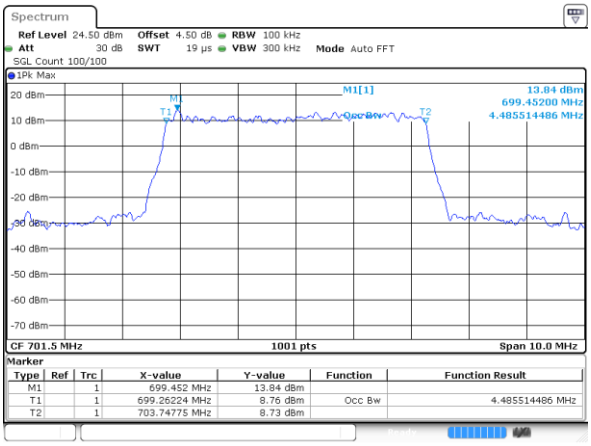


LTE Band 12

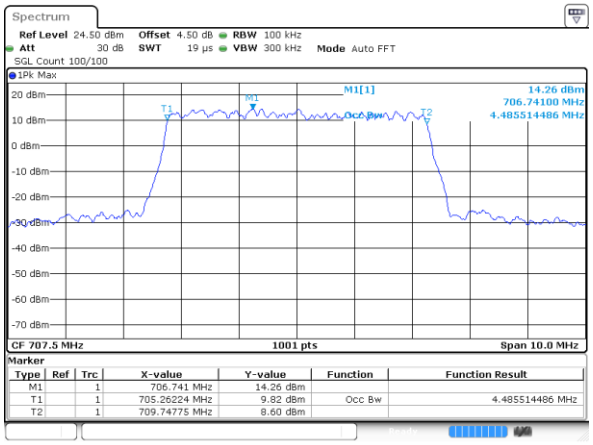
Lowest Channel / 5MHz / QPSK



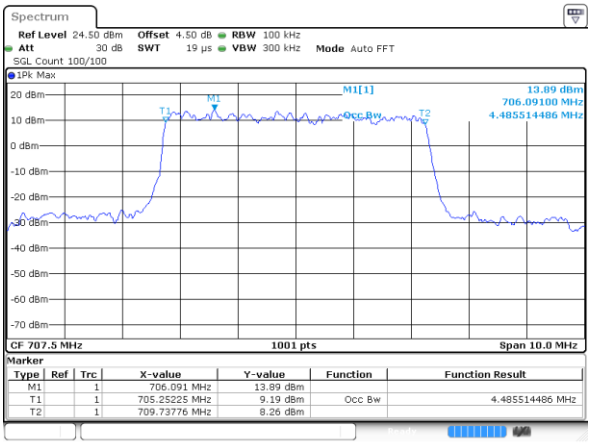
Lowest Channel / 5MHz / 16QAM



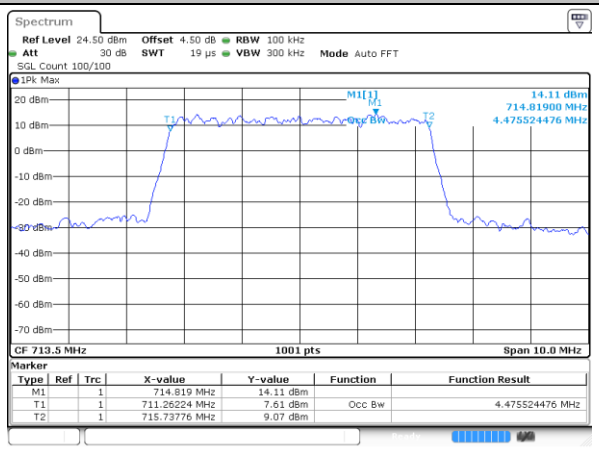
Middle Channel / 5MHz / QPSK



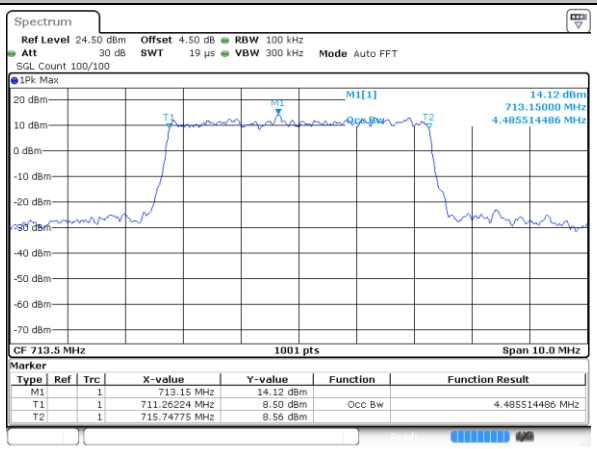
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

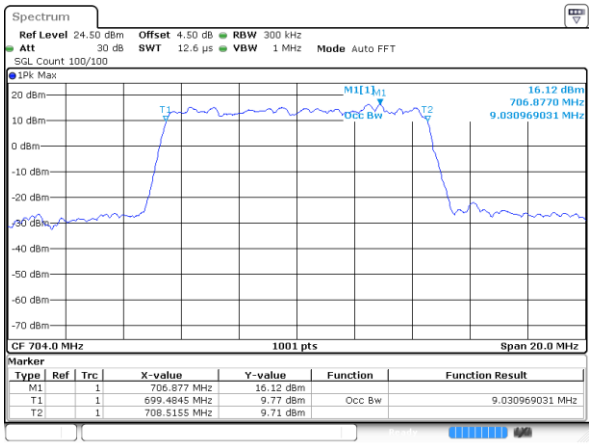


Highest Channel / 5MHz / 16QAM



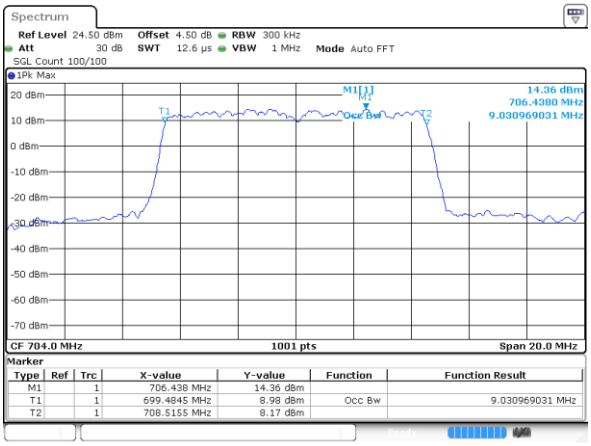
LTE Band 12

Lowest Channel / 10MHz / QPSK



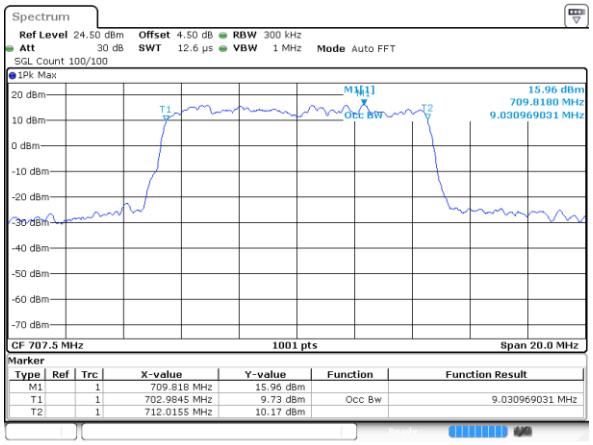
Date: 4.DEC.2019 16:24:56

Lowest Channel / 10MHz / 16QAM



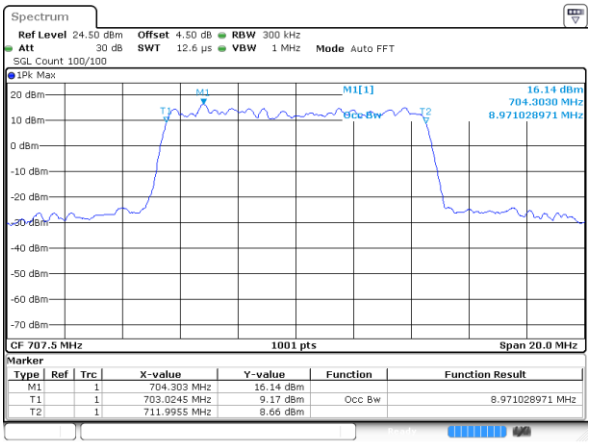
Date: 4.DEC.2019 16:25:06

Middle Channel / 10MHz / QPSK



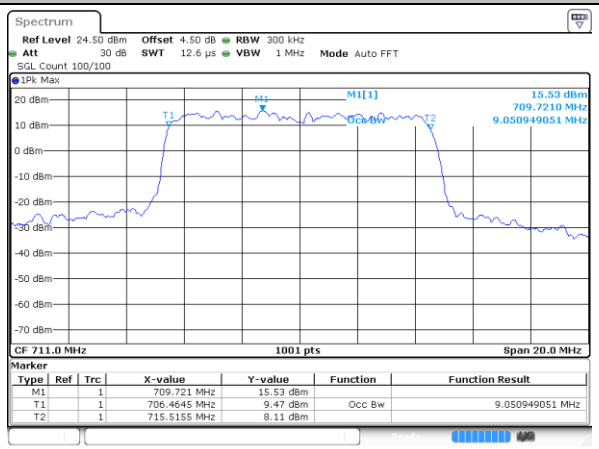
Date: 4.DEC.2019 16:25:26

Middle Channel / 10MHz / 16QAM



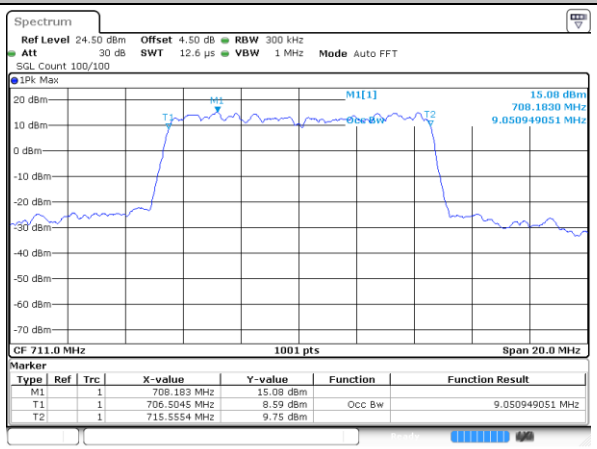
Date: 4.DEC.2019 16:25:16

Highest Channel / 10MHz / QPSK



Date: 4.DEC.2019 16:25:36

Highest Channel / 10MHz / 16QAM

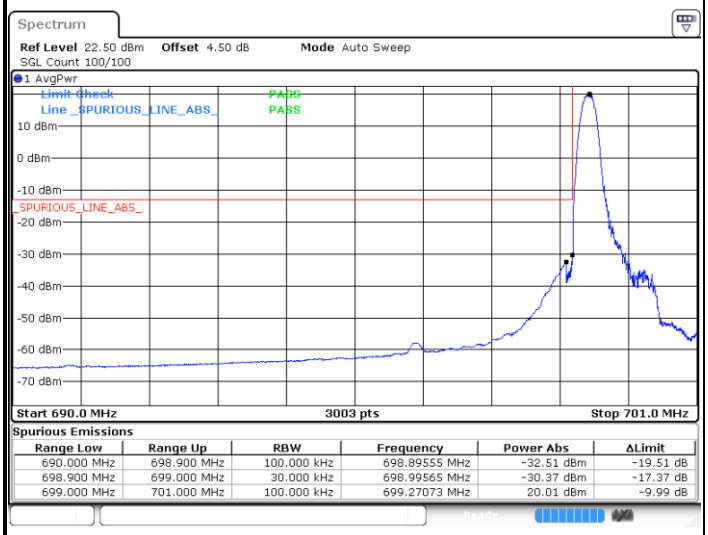


Date: 4.DEC.2019 16:25:46

Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB

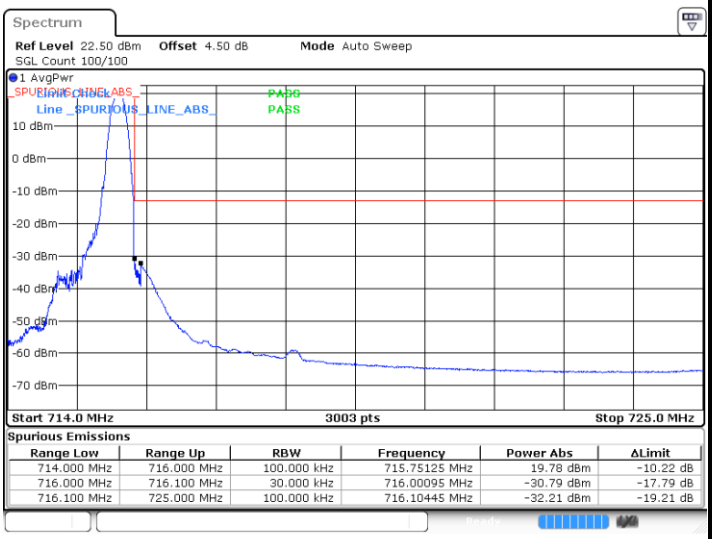


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.51 dBm	-19.51 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99565 MHz	-30.37 dBm	-17.37 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.27073 MHz	20.01 dBm	-9.99 dB

Date: 4.DEC.2019 15:45:13

Highest Band Edge / 1RB

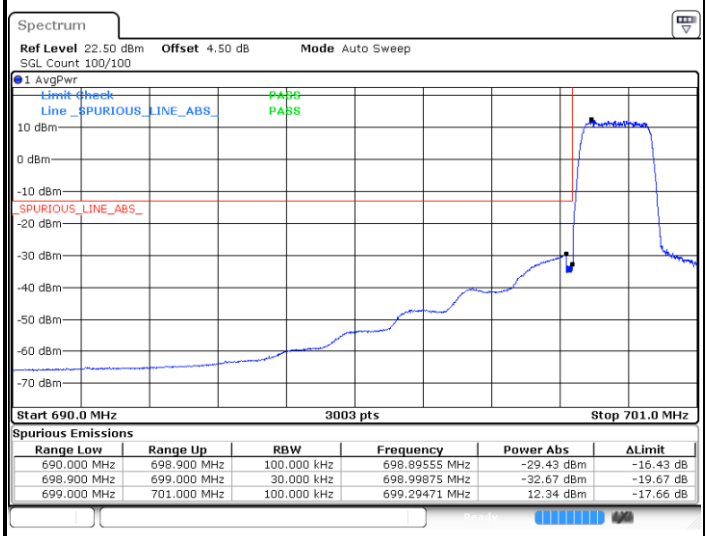


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.75125 MHz	19.78 dBm	-10.22 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00095 MHz	-30.79 dBm	-17.79 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.21 dBm	-19.21 dB

Date: 4.DEC.2019 15:50:50

Lowest Band Edge / Full RB

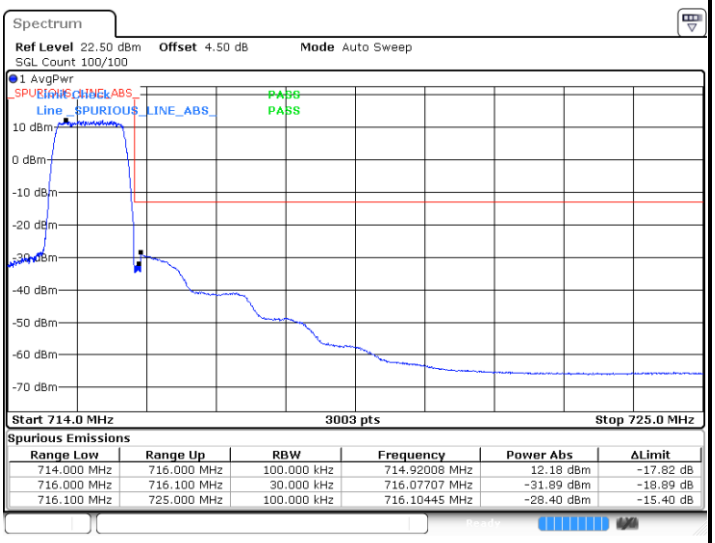


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.43 dBm	-16.43 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99875 MHz	-32.67 dBm	-19.67 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.29471 MHz	12.34 dBm	-17.66 dB

Date: 4.DEC.2019 15:46:20

Highest Band Edge / Full RB



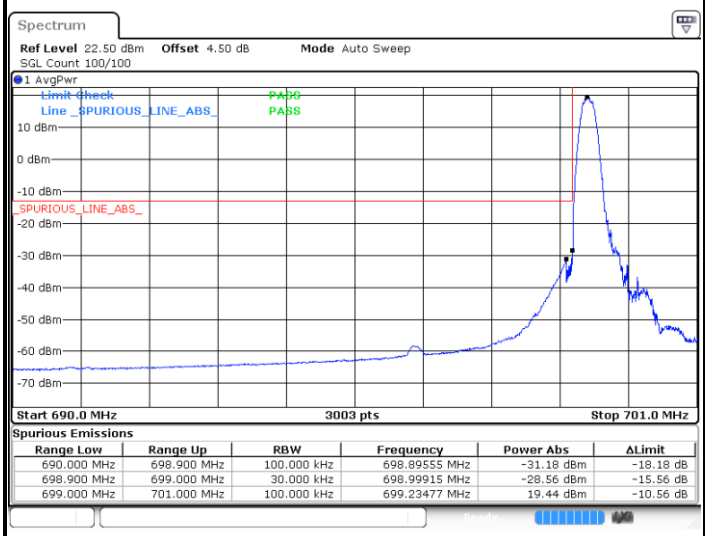
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	714.92008 MHz	12.18 dBm	-17.82 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.07707 MHz	-31.89 dBm	-18.89 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-28.40 dBm	-15.40 dB

Date: 4.DEC.2019 15:49:42

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

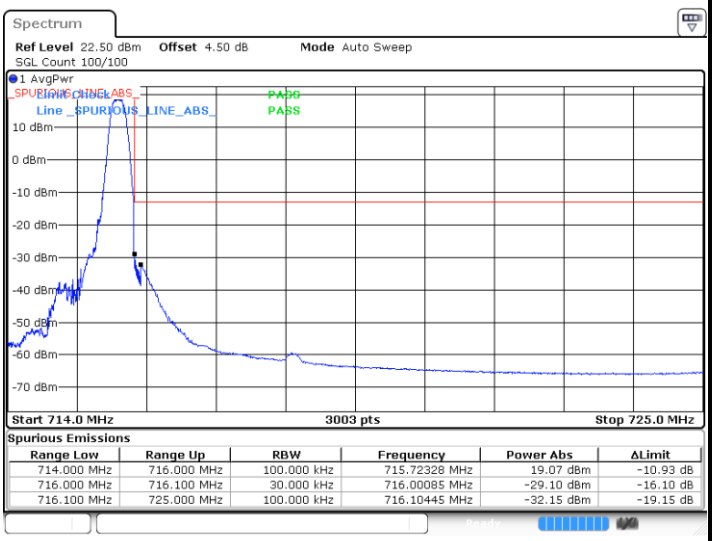


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.18 dBm	-18.18 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99915 MHz	-28.56 dBm	-15.56 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.23477 MHz	19.44 dBm	-10.56 dB

Date: 4.DEC.2019 15:44:05

Highest Band Edge / 1 RB

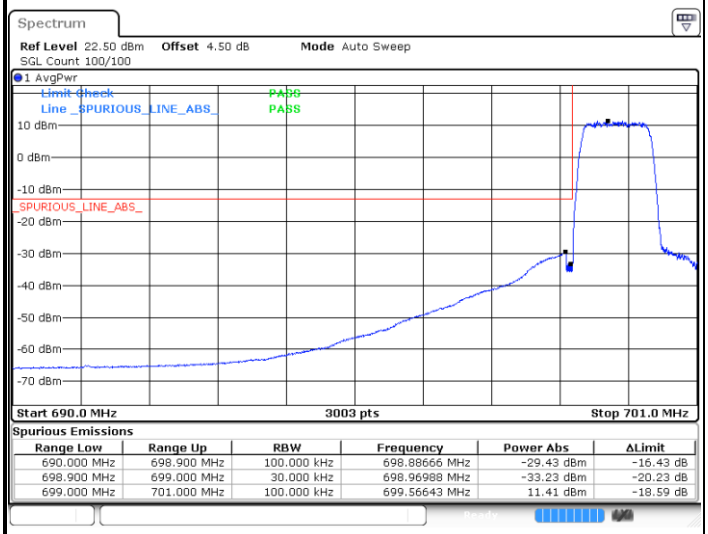


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.72328 MHz	19.07 dBm	-10.93 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-29.10 dBm	-16.10 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.15 dBm	-19.15 dB

Date: 4.DEC.2019 15:51:57

Lowest Band Edge / Full RB

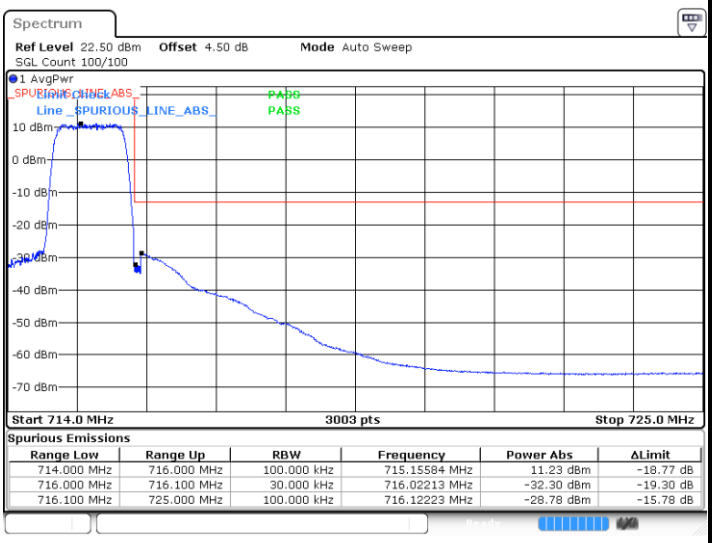


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-29.43 dBm	-16.43 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.96988 MHz	-33.23 dBm	-20.23 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.56643 MHz	11.41 dBm	-18.59 dB

Date: 4.DEC.2019 15:47:28

Highest Band Edge / Full RB



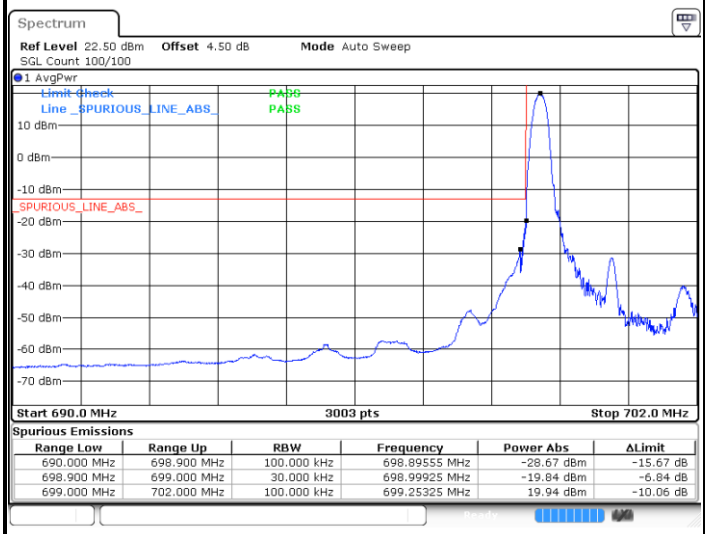
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.15584 MHz	11.23 dBm	-18.77 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.02213 MHz	-32.30 dBm	-19.30 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-28.78 dBm	-15.78 dB

Date: 4.DEC.2019 15:48:35

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

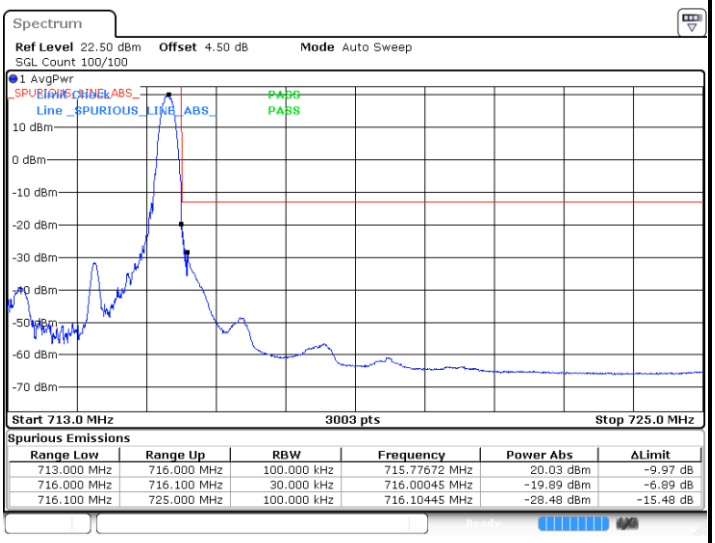


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.67 dBm	-15.67 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99925 MHz	-19.84 dBm	-6.84 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.25325 MHz	19.94 dBm	-10.06 dB

Date: 4.DEC.2019 16:01:37

Highest Band Edge / 1 RB

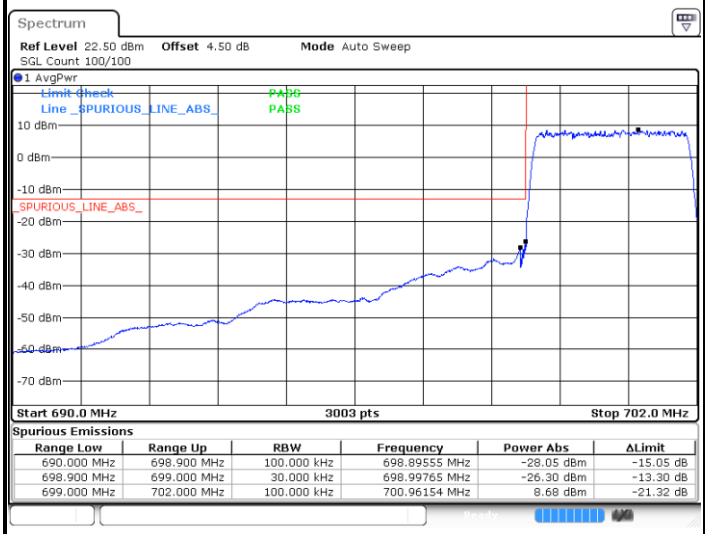


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.77672 MHz	20.03 dBm	-9.97 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00045 MHz	-19.89 dBm	-6.89 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-28.48 dBm	-15.48 dB

Date: 4.DEC.2019 16:07:14

Lowest Band Edge / Full RB

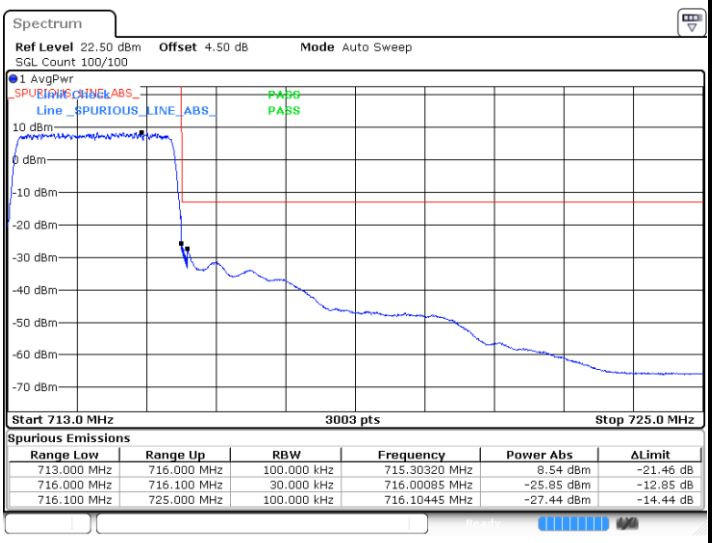


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.05 dBm	-15.05 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99765 MHz	-26.30 dBm	-13.30 dB
699.000 MHz	702.000 MHz	100.000 kHz	700.96154 MHz	8.68 dBm	-21.32 dB

Date: 4.DEC.2019 16:02:45

Highest Band Edge / Full RB



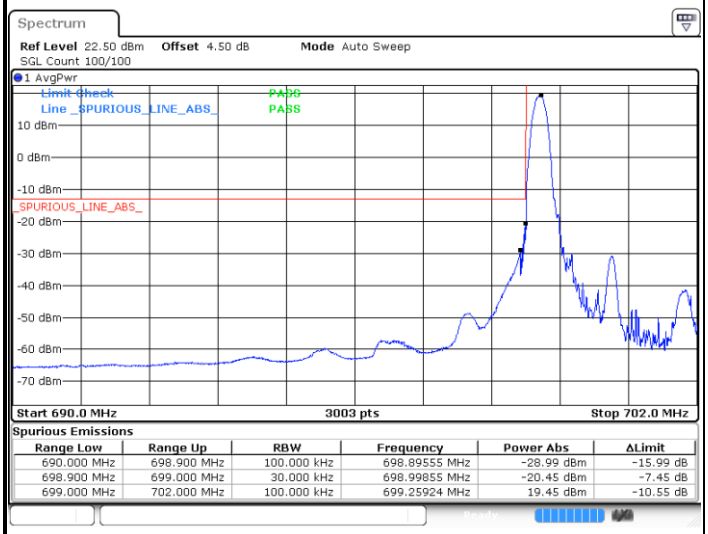
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.30320 MHz	8.54 dBm	-21.46 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-25.85 dBm	-12.85 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-27.44 dBm	-14.44 dB

Date: 4.DEC.2019 16:06:07

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

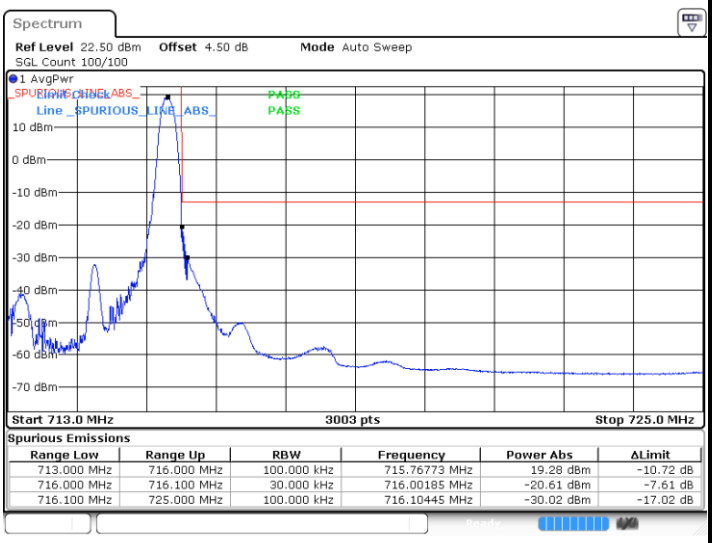


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.99 dBm	-15.99 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99855 MHz	-20.45 dBm	-7.45 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.25924 MHz	19.45 dBm	-10.55 dB

Date: 4.DEC.2019 16:00:30

Highest Band Edge / 1 RB

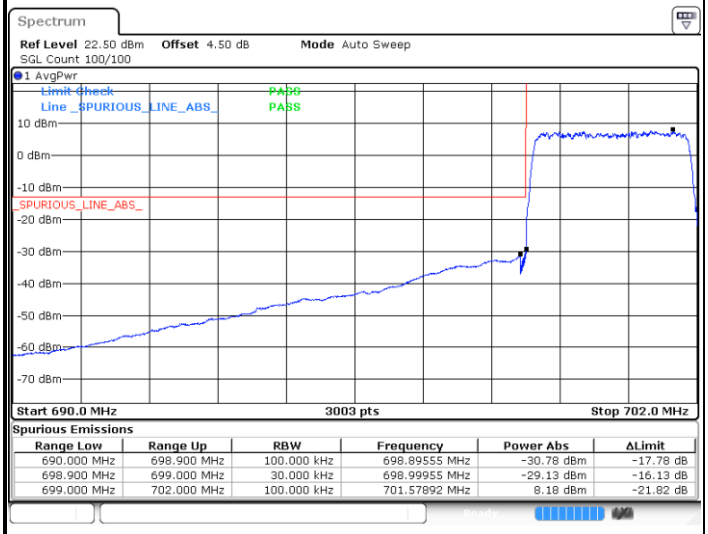


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.76773 MHz	19.28 dBm	-10.72 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00185 MHz	-20.61 dBm	-7.61 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.02 dBm	-17.02 dB

Date: 4.DEC.2019 16:08:21

Lowest Band Edge / Full RB

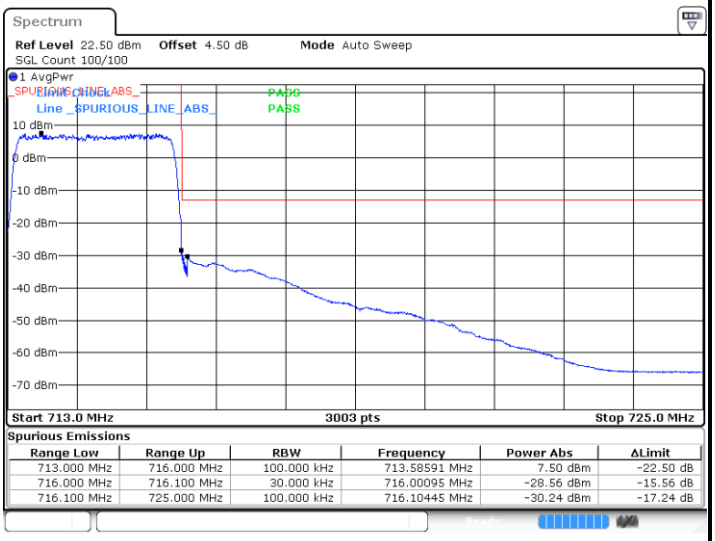


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-30.78 dBm	-17.78 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99955 MHz	-29.13 dBm	-16.13 dB
699.000 MHz	702.000 MHz	100.000 kHz	701.57892 MHz	8.18 dBm	-21.82 dB

Date: 4.DEC.2019 16:03:52

Highest Band Edge / Full RB



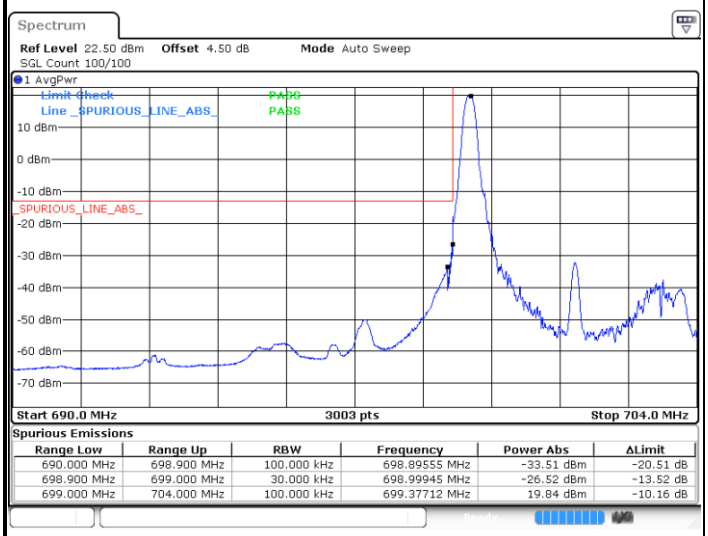
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.58591 MHz	7.50 dBm	-22.50 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00095 MHz	-28.56 dBm	-15.56 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.24 dBm	-17.24 dB

Date: 4.DEC.2019 16:04:59

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

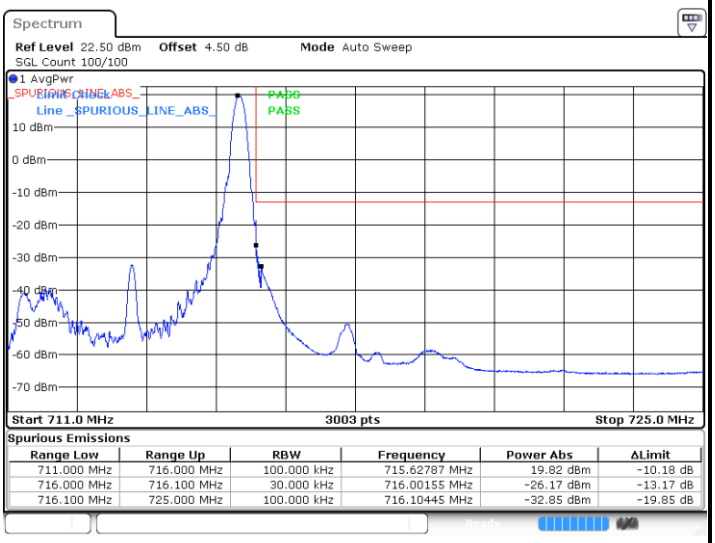


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.51 dBm	-20.51 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99945 MHz	-26.52 dBm	-13.52 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.37712 MHz	19.84 dBm	-10.16 dB

Date: 4.DEC.2019 16:18:02

Highest Band Edge / 1 RB

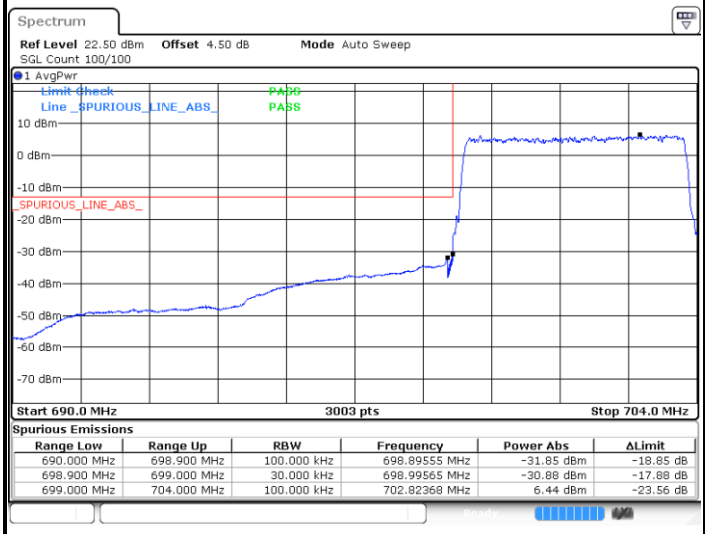


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.62787 MHz	19.82 dBm	-10.18 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00155 MHz	-26.17 dBm	-13.17 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.85 dBm	-19.85 dB

Date: 4.DEC.2019 16:23:39

Lowest Band Edge / Full RB

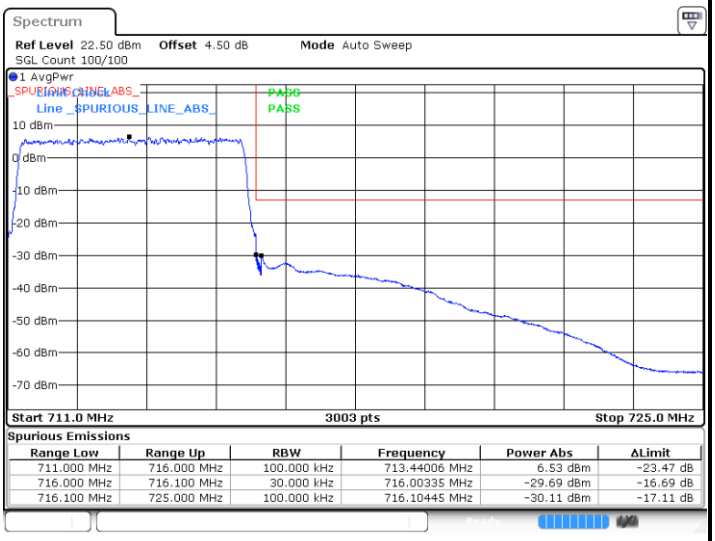


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.85 dBm	-18.85 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99565 MHz	-30.88 dBm	-17.88 dB
699.000 MHz	704.000 MHz	100.000 kHz	702.82368 MHz	6.44 dBm	-23.56 dB

Date: 4.DEC.2019 16:19:09

Highest Band Edge / Full RB



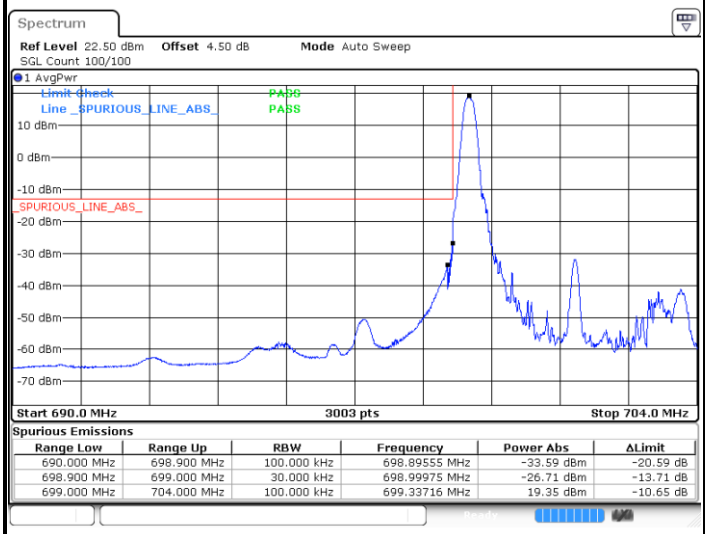
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	713.44006 MHz	6.53 dBm	-23.47 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00335 MHz	-29.69 dBm	-16.69 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.11 dBm	-17.11 dB

Date: 4.DEC.2019 16:22:31

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

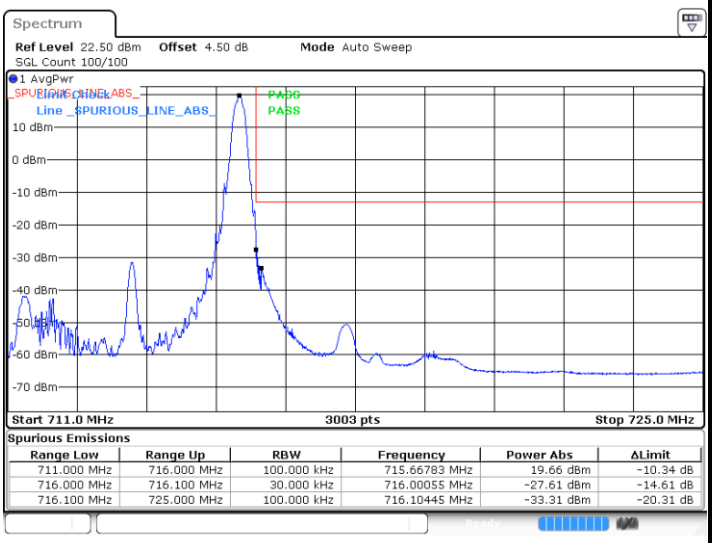


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.59 dBm	-20.59 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99975 MHz	-26.71 dBm	-13.71 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.33716 MHz	19.35 dBm	-10.65 dB

Date: 4.DEC.2019 16:16:54

Highest Band Edge / 1 RB

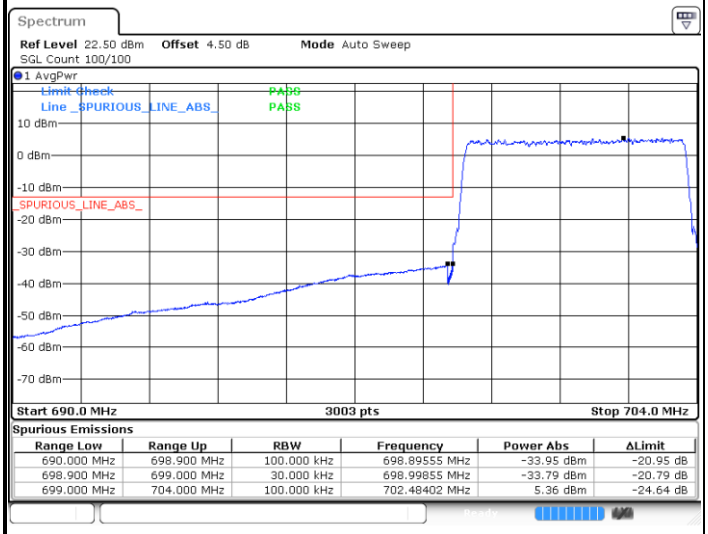


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66783 MHz	19.66 dBm	-10.34 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00055 MHz	-27.61 dBm	-14.61 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.31 dBm	-20.31 dB

Date: 4.DEC.2019 16:24:46

Lowest Band Edge / Full RB

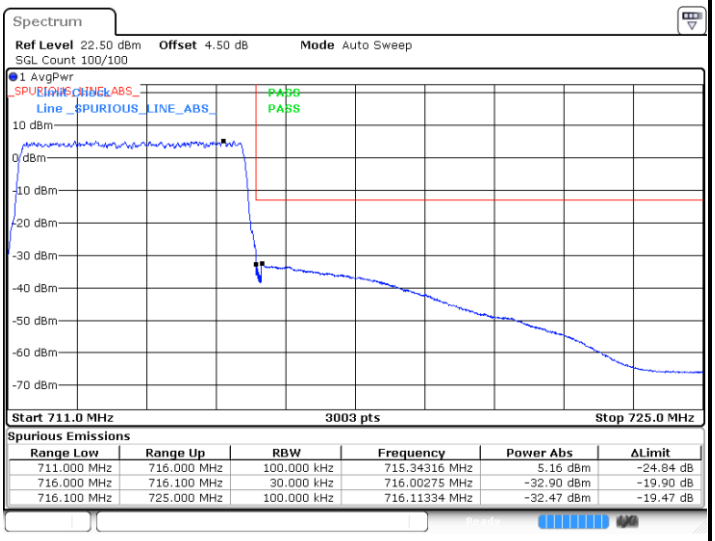


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.95 dBm	-20.95 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99855 MHz	-33.79 dBm	-20.79 dB
699.000 MHz	704.000 MHz	100.000 kHz	702.48402 MHz	5.36 dBm	-24.64 dB

Date: 4.DEC.2019 16:20:17

Highest Band Edge / Full RB



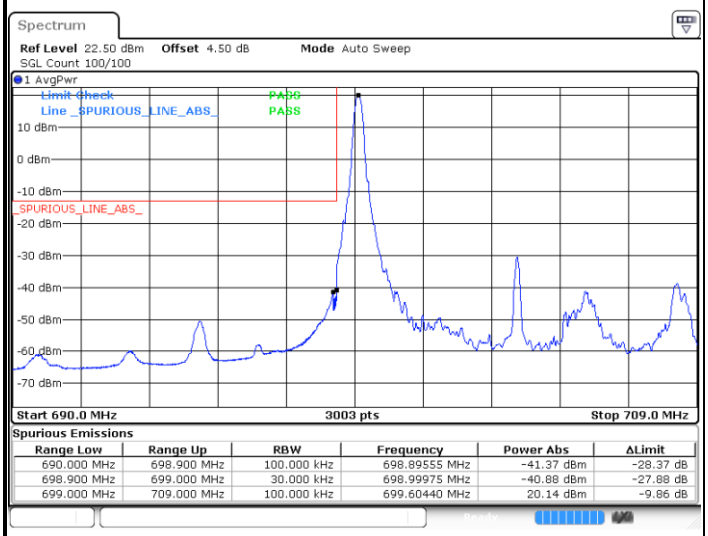
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.34316 MHz	5.16 dBm	-24.84 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00275 MHz	-32.90 dBm	-19.90 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-32.47 dBm	-19.47 dB

Date: 4.DEC.2019 16:21:24

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

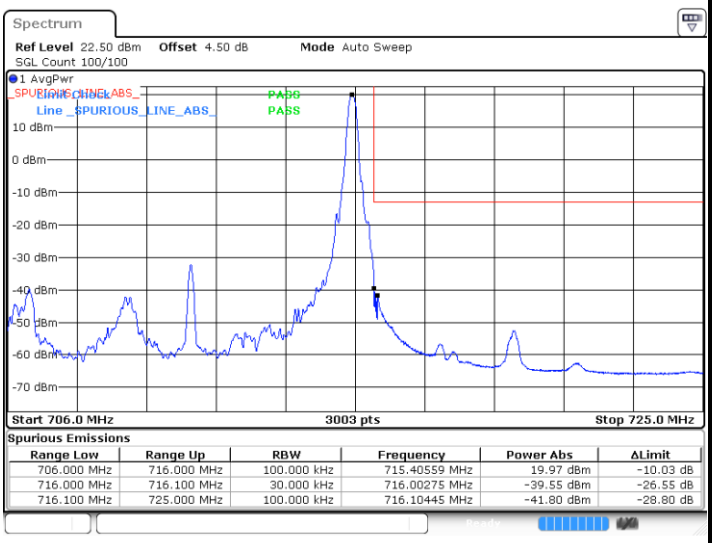


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-41.37 dBm	-28.37 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99975 MHz	-40.88 dBm	-27.88 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.60440 MHz	20.14 dBm	-9.86 dB

Date: 4.DEC.2019 16:34:26

Highest Band Edge / 1 RB

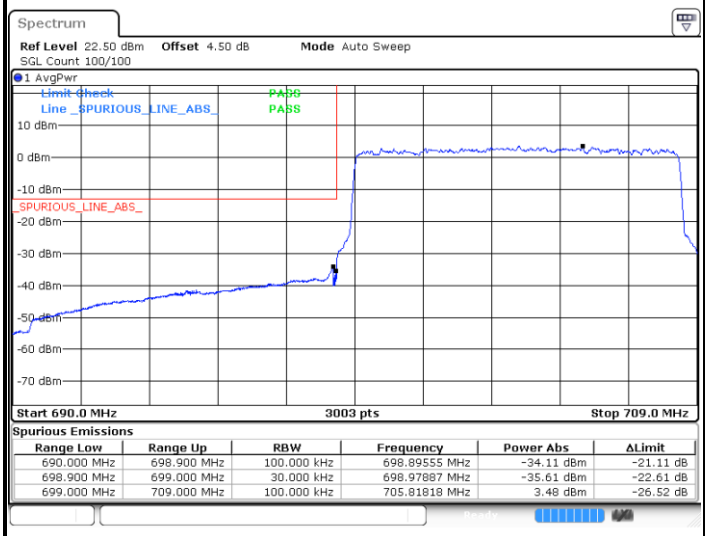


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.40559 MHz	19.97 dBm	-10.03 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00275 MHz	-39.55 dBm	-26.55 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-41.80 dBm	-28.80 dB

Date: 4.DEC.2019 16:40:03

Lowest Band Edge / Full RB

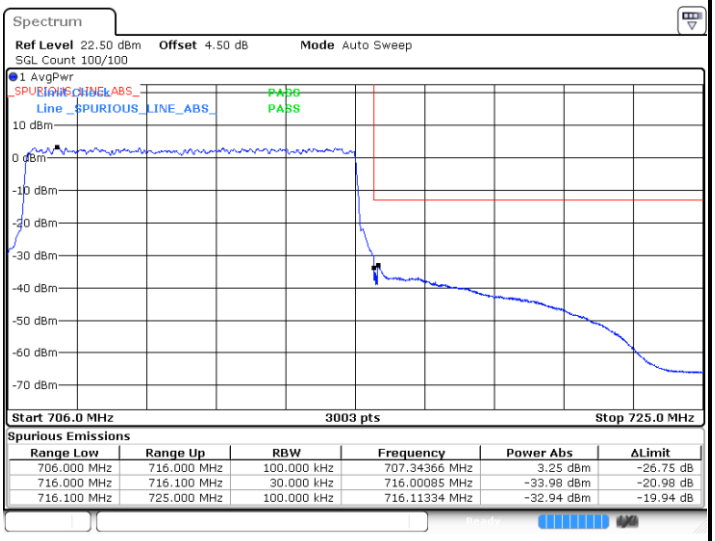


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-34.11 dBm	-21.11 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.97887 MHz	-35.61 dBm	-22.61 dB
699.000 MHz	709.000 MHz	100.000 kHz	705.81818 MHz	3.48 dBm	-26.52 dB

Date: 4.DEC.2019 16:35:33

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	707.34366 MHz	3.25 dBm	-26.75 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-33.98 dBm	-20.98 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-32.94 dBm	-19.94 dB

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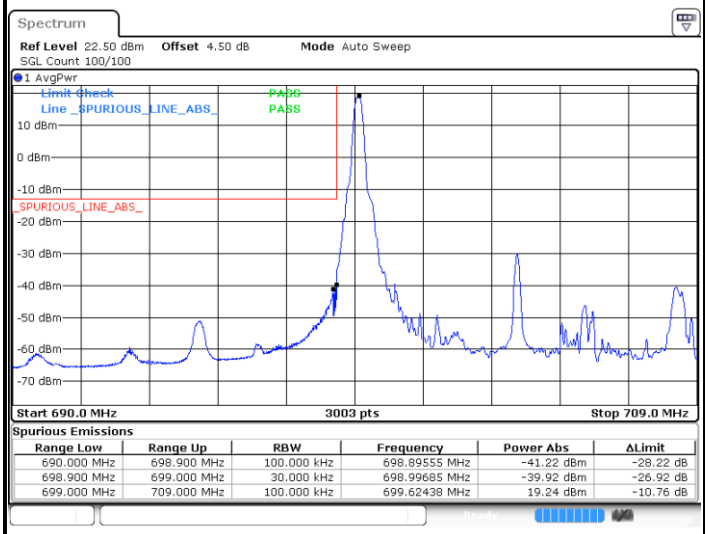
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

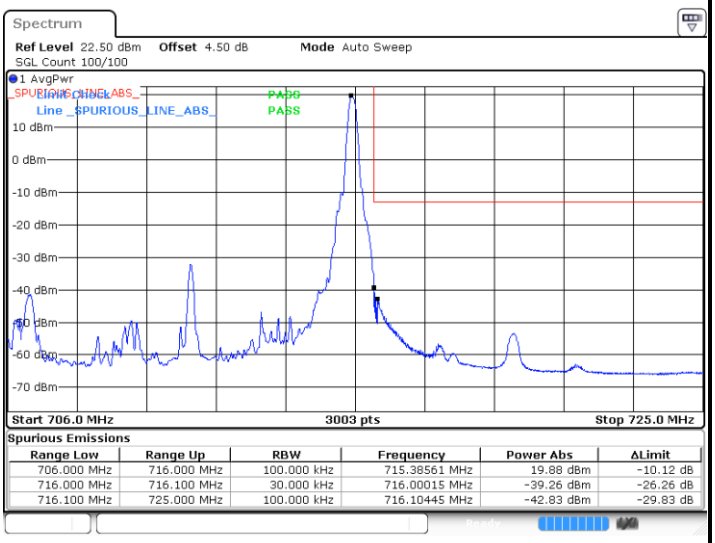


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-41.22 dBm	-28.22 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99685 MHz	-39.92 dBm	-26.92 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.62438 MHz	19.24 dBm	-10.76 dB

Date: 4.DEC.2019 16:33:18

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	19.88 dBm	-10.12 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00015 MHz	-39.26 dBm	-26.26 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-42.83 dBm	-29.83 dB

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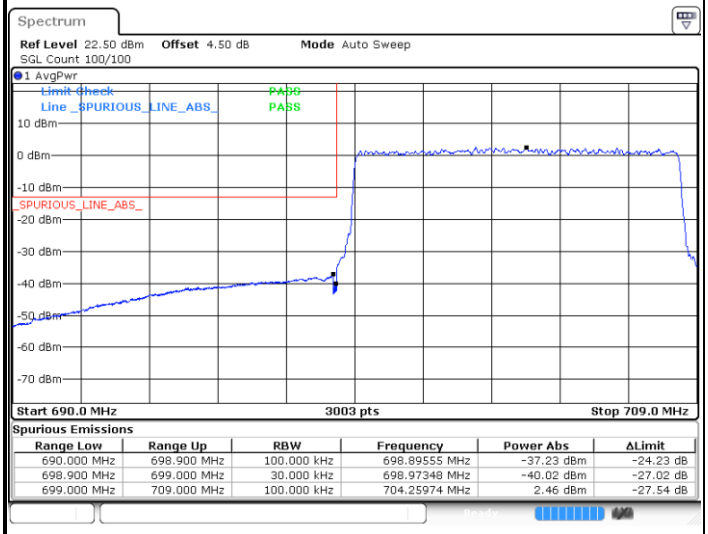
Lowest Band Edge / Full RB

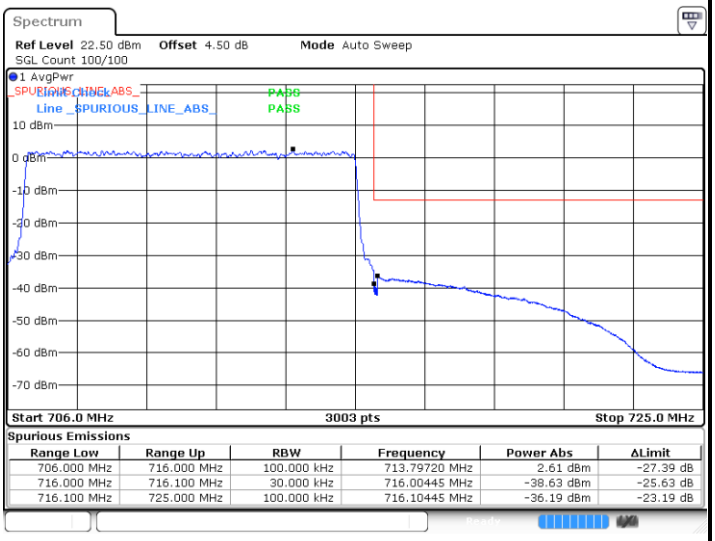


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-37.23 dBm	-24.23 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.97348 MHz	-40.02 dBm	-27.02 dB
699.000 MHz	709.000 MHz	100.000 kHz	704.25974 MHz	2.46 dBm	-27.54 dB

Date: 4.DEC.2019 16:36:41

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	713.79720 MHz	2.61 dBm	-27.39 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00445 MHz	-38.63 dBm	-25.63 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-36.19 dBm	-23.19 dB

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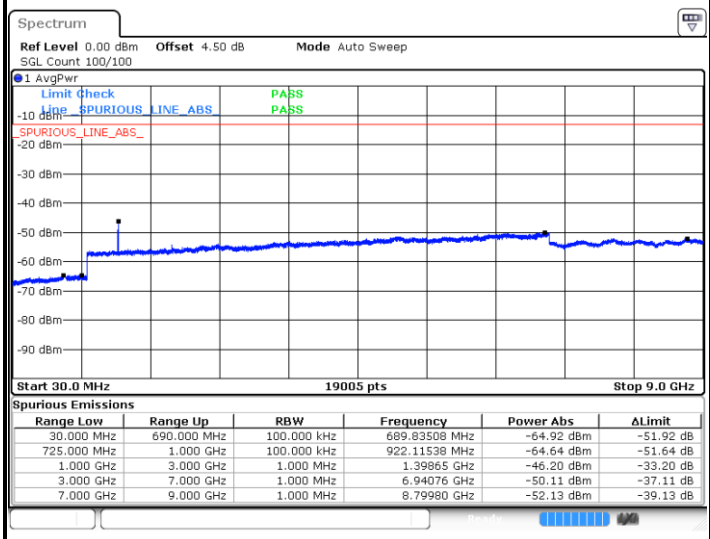
Conducted Spurious Emission

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	689.83508 MHz	-64.92 dBm	-51.92 dB
725.000 MHz	1.000 GHz	100.000 kHz	922.11538 MHz	-64.64 dBm	-51.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.20 dBm	-33.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94076 GHz	-50.11 dBm	-37.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.79980 GHz	-52.13 dBm	-39.13 dB

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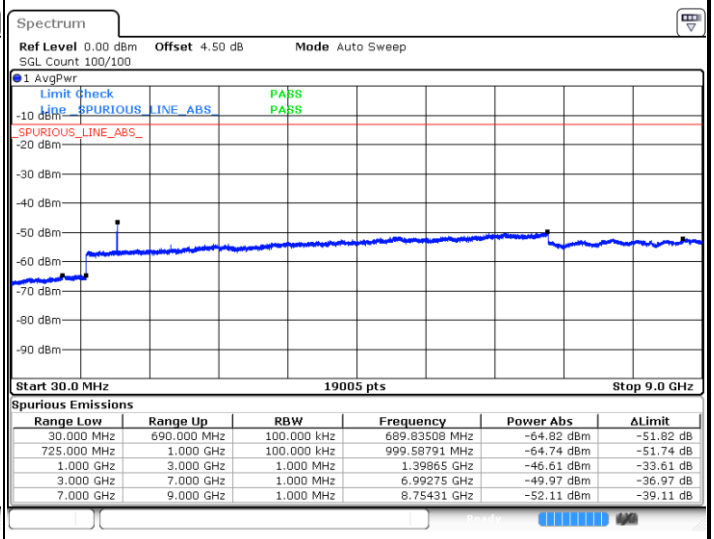
Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-64.82 dBm	-51.82 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.58791 MHz	-64.74 dBm	-51.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.61 dBm	-33.61 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99275 GHz	-49.97 dBm	-36.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.75431 GHz	-52.11 dBm	-39.11 dB

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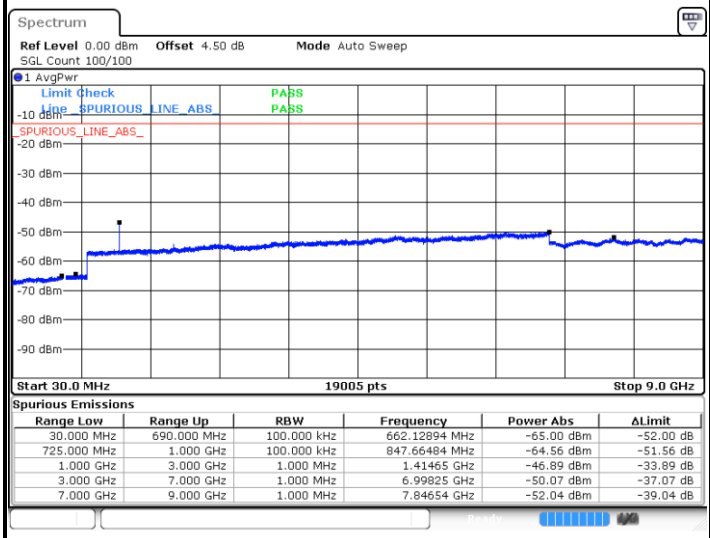
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	662.12894 MHz	-65.00 dBm	-52.00 dB
725.000 MHz	1.000 GHz	100.000 kHz	847.66484 MHz	-64.56 dBm	-51.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41465 GHz	-46.89 dBm	-33.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99825 GHz	-50.07 dBm	-37.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.84654 GHz	-52.04 dBm	-39.04 dB

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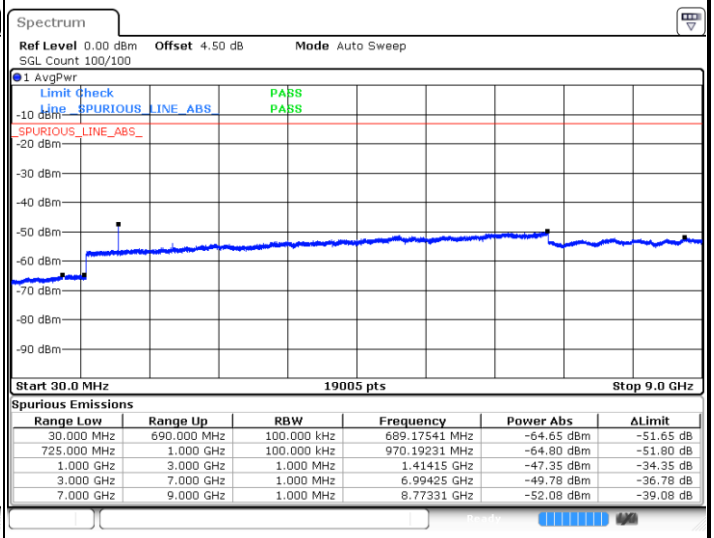
Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-64.65 dBm	-51.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	970.19231 MHz	-64.80 dBm	-51.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-47.35 dBm	-34.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-49.78 dBm	-36.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77331 GHz	-52.08 dBm	-39.08 dB

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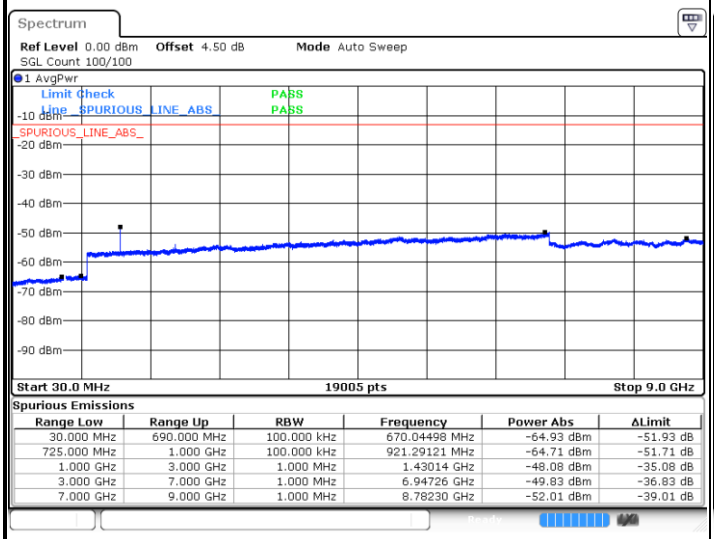
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	670.04498 MHz	-64.93 dBm	-51.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	921.29121 MHz	-64.71 dBm	-51.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-48.08 dBm	-35.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94726 GHz	-49.83 dBm	-36.83 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.78230 GHz	-52.01 dBm	-39.01 dB

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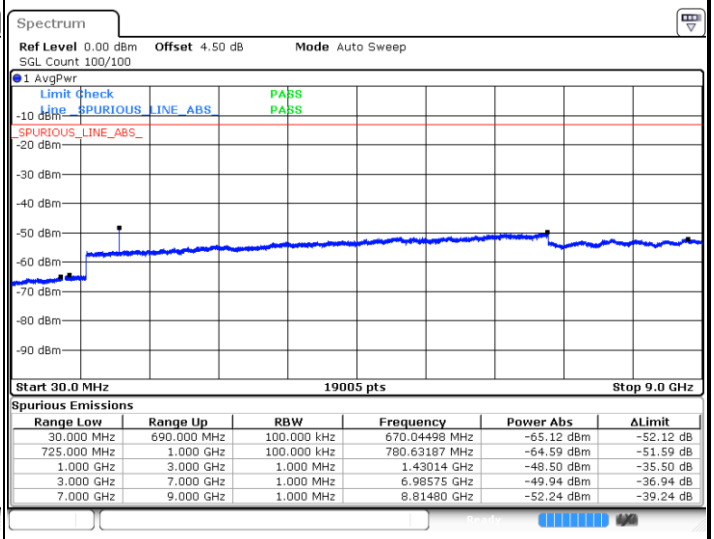
Highest Channel / 16QAM



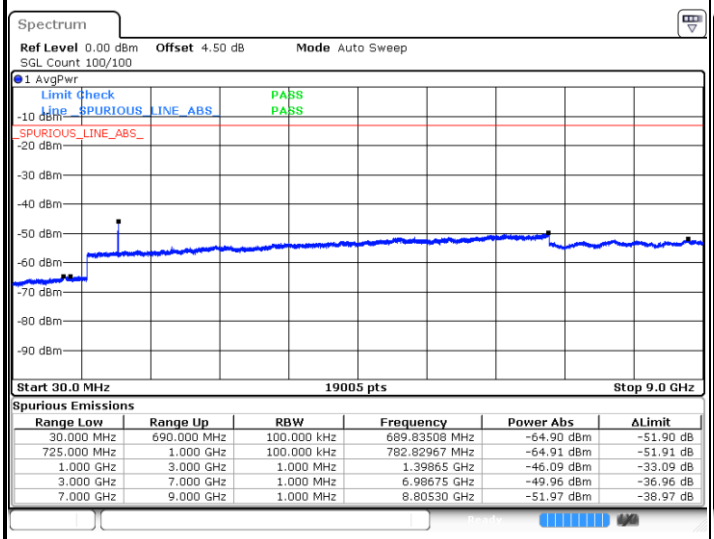
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	670.04498 MHz	-65.12 dBm	-52.12 dB
725.000 MHz	1.000 GHz	100.000 kHz	780.63187 MHz	-64.59 dBm	-51.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-48.50 dBm	-35.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98575 GHz	-49.94 dBm	-36.94 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.81480 GHz	-52.24 dBm	-39.24 dB

Date: 4.DEC.2019 15:42:57

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	689.83508 MHz	-64.90 dBm	-51.90 dB
725.000 MHz	1.000 GHz	100.000 kHz	782.82967 MHz	-64.91 dBm	-51.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.09 dBm	-33.09 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-49.96 dBm	-36.96 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.80530 GHz	-51.97 dBm	-38.97 dB

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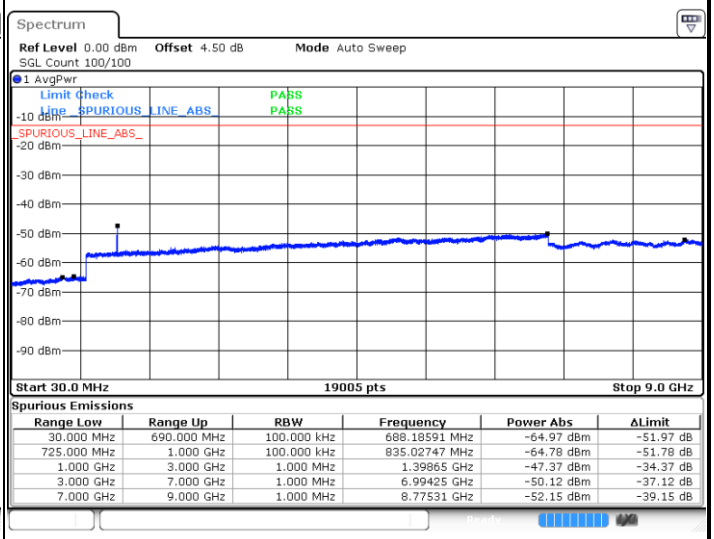
Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.18591 MHz	-64.97 dBm	-51.97 dB
725.000 MHz	1.000 GHz	100.000 kHz	835.02747 MHz	-64.78 dBm	-51.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-47.37 dBm	-34.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-50.12 dBm	-37.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77531 GHz	-52.15 dBm	-39.15 dB

Date: 4.DEC.2019 15:55:45