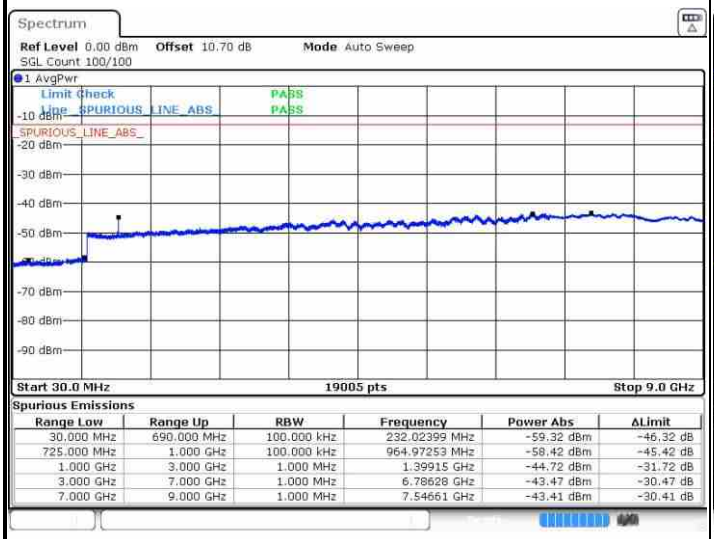
LTE Band 12 / 5MHz

Lowest Channel / QPSK

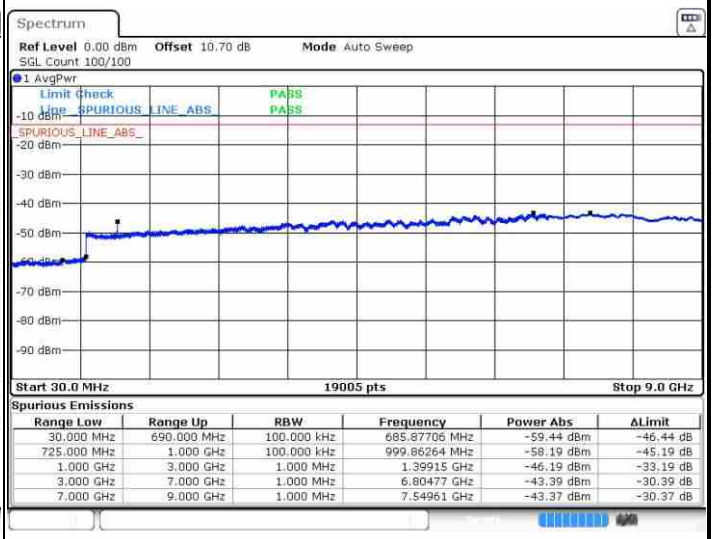


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	232.02399 MHz	-59.32 dBm	-46.32 dB
725.000 MHz	1.000 GHz	100.000 kHz	964.97253 MHz	-58.42 dBm	-45.42 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-44.72 dBm	-31.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78628 GHz	-43.47 dBm	-30.47 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54661 GHz	-43.41 dBm	-30.41 dB

Date: 22.MAY.2019 02:28:02

Lowest Channel / 16QAM

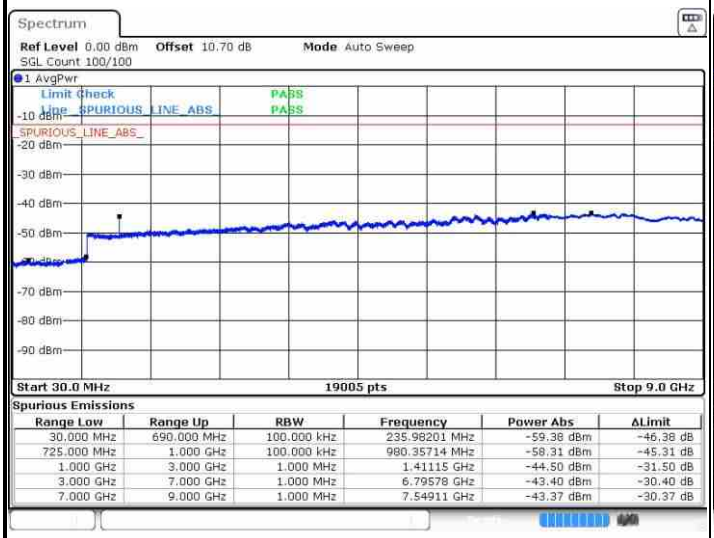


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	685.87706 MHz	-59.44 dBm	-46.44 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.86264 MHz	-58.19 dBm	-45.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-46.19 dBm	-33.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80477 GHz	-43.39 dBm	-30.39 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54961 GHz	-43.37 dBm	-30.37 dB

Date: 22.MAY.2019 02:28:49

Middle Channel / QPSK

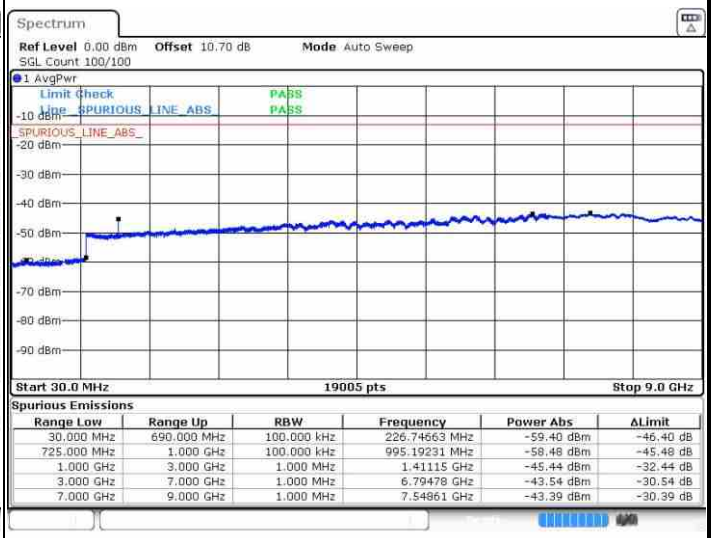


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	235.98201 MHz	-59.38 dBm	-46.38 dB
725.000 MHz	1.000 GHz	100.000 kHz	980.35714 MHz	-58.31 dBm	-45.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-44.50 dBm	-31.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79578 GHz	-43.40 dBm	-30.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54911 GHz	-43.37 dBm	-30.37 dB

Date: 22.MAY.2019 02:31:08

Middle Channel / 16QAM



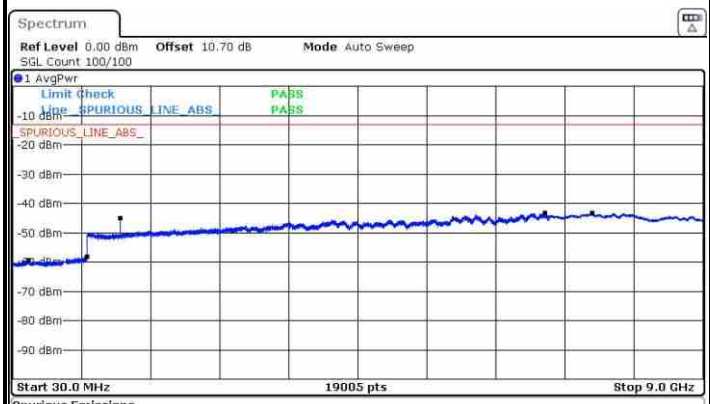
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	226.74663 MHz	-59.40 dBm	-46.40 dB
725.000 MHz	1.000 GHz	100.000 kHz	995.19231 MHz	-58.48 dBm	-45.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-45.44 dBm	-32.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79478 GHz	-43.54 dBm	-30.54 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54861 GHz	-43.39 dBm	-30.39 dB

Date: 22.MAY.2019 02:30:22

LTE Band 12 / 5MHz

Highest Channel / QPSK

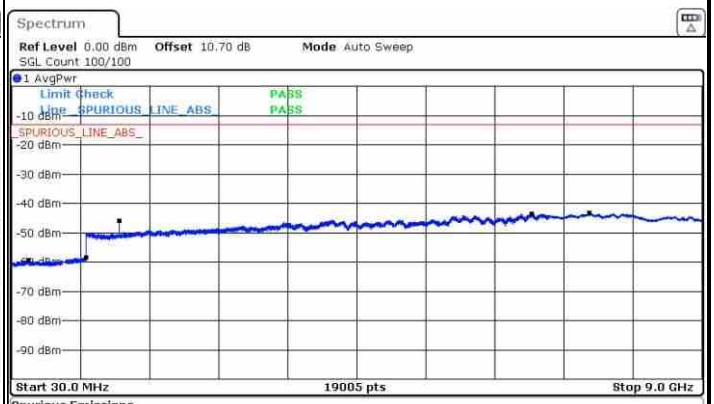


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	235.32234 MHz	-59.34 dBm	-46.34 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-58.17 dBm	-45.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.10 dBm	-32.10 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94676 GHz	-43.37 dBm	-30.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55561 GHz	-43.15 dBm	-30.15 dB

Date: 22.MAY.2019 02:37:33

Highest Channel / 16QAM



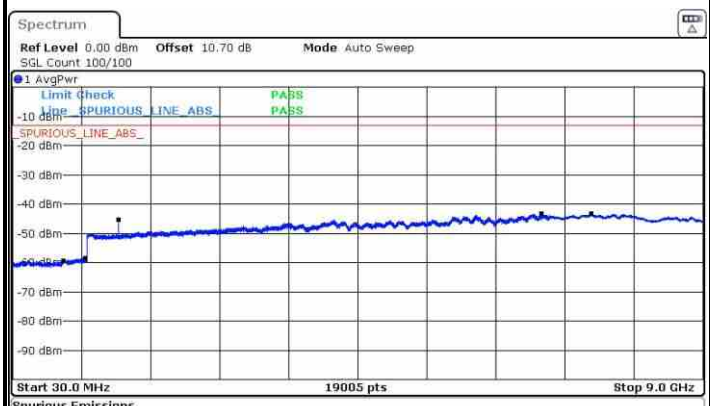
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	249.17541 MHz	-59.45 dBm	-46.45 dB
725.000 MHz	1.000 GHz	100.000 kHz	992.17033 MHz	-58.38 dBm	-45.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-46.07 dBm	-33.07 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79128 GHz	-43.57 dBm	-30.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53462 GHz	-43.40 dBm	-30.40 dB

Date: 22.MAY.2019 02:36:47

LTE Band 12 / 10MHz

Lowest Channel / QPSK

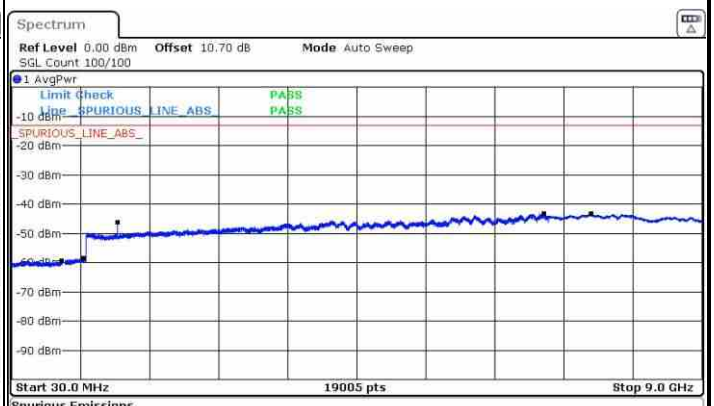


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-59.33 dBm	-46.33 dB
725.000 MHz	1.000 GHz	100.000 kHz	971.01648 MHz	-58.42 dBm	-45.42 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-45.42 dBm	-32.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90226 GHz	-43.40 dBm	-30.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54961 GHz	-43.20 dBm	-30.20 dB

Date: 22.MAY.2019 02:43:13

Lowest Channel / 16QAM



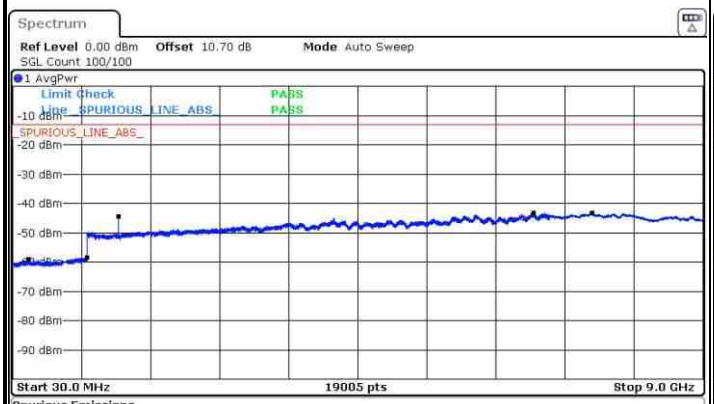
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	676.64168 MHz	-59.42 dBm	-46.42 dB
725.000 MHz	1.000 GHz	100.000 kHz	966.89560 MHz	-58.44 dBm	-45.44 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-46.28 dBm	-33.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94726 GHz	-43.42 dBm	-30.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55261 GHz	-43.26 dBm	-30.26 dB

Date: 22.MAY.2019 02:44:00

LTE Band 12 / 10MHz

Middle Channel / QPSK

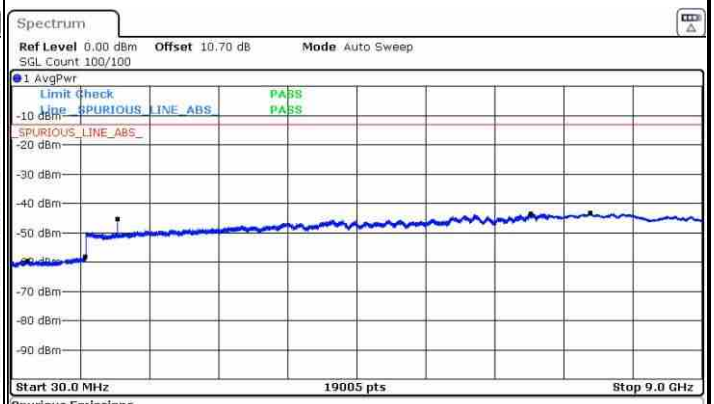


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	235.32234 MHz	-59.23 dBm	-46.23 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-58.38 dBm	-45.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-44.41 dBm	-31.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80227 GHz	-43.38 dBm	-30.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55711 GHz	-43.39 dBm	-30.39 dB

Date: 22.MAY.2019 02:46:18

Middle Channel / 16QAM

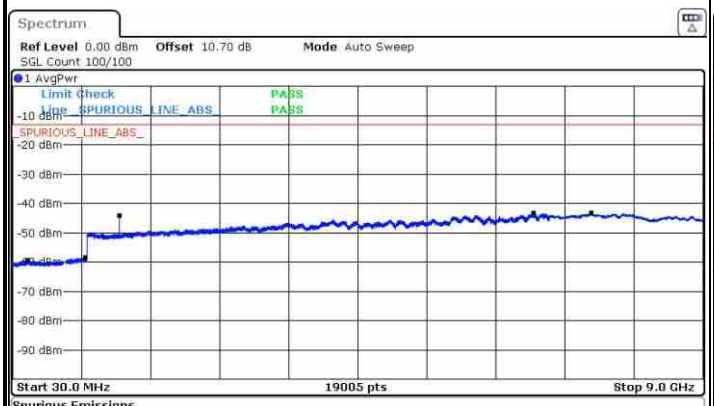


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	229.38531 MHz	-59.59 dBm	-46.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	983.65385 MHz	-58.23 dBm	-45.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-45.33 dBm	-32.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77628 GHz	-43.50 dBm	-30.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54361 GHz	-43.24 dBm	-30.24 dB

Date: 22.MAY.2019 02:45:33

Highest Channel / QPSK

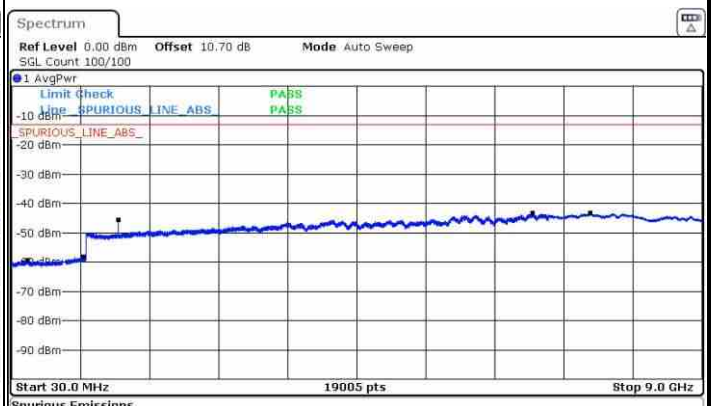


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	228.72564 MHz	-59.55 dBm	-46.55 dB
725.000 MHz	1.000 GHz	100.000 kHz	977.60989 MHz	-58.48 dBm	-45.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.08 dBm	-31.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79678 GHz	-43.35 dBm	-30.35 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-43.41 dBm	-30.41 dB

Date: 22.MAY.2019 02:51:57

Highest Channel / 16QAM



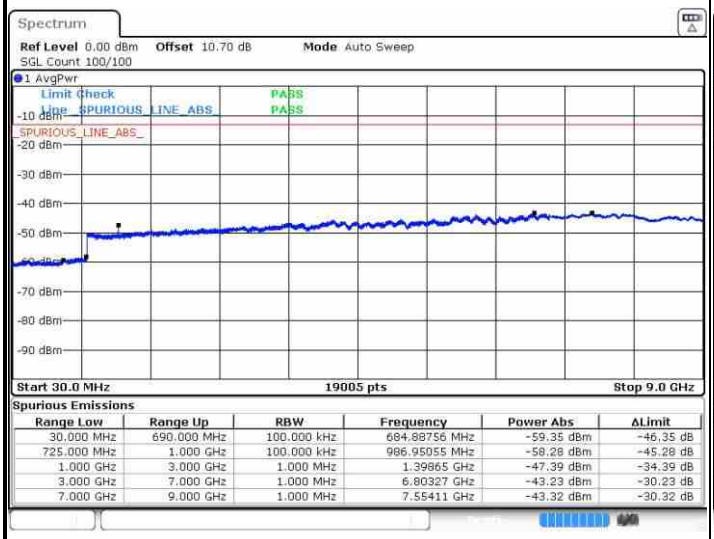
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	232.35382 MHz	-59.26 dBm	-46.26 dB
725.000 MHz	1.000 GHz	100.000 kHz	966.89560 MHz	-58.26 dBm	-45.26 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.64 dBm	-32.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79528 GHz	-43.42 dBm	-30.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55161 GHz	-43.36 dBm	-30.36 dB

Date: 22.MAY.2019 02:52:43

LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

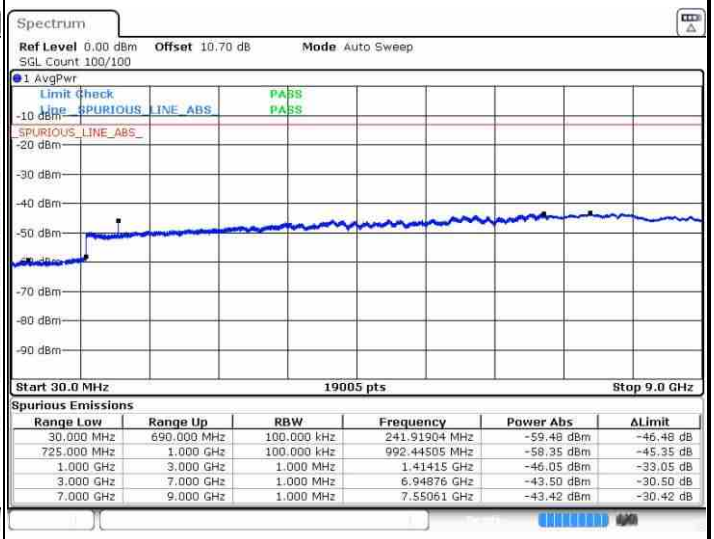


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	684.88756 MHz	-59.35 dBm	-46.35 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.95055 MHz	-58.28 dBm	-45.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-47.39 dBm	-34.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.80327 GHz	-43.23 dBm	-30.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55411 GHz	-43.32 dBm	-30.32 dB

Date: 21.MAY.2019 22:38:17

Middle Channel / 64QAM

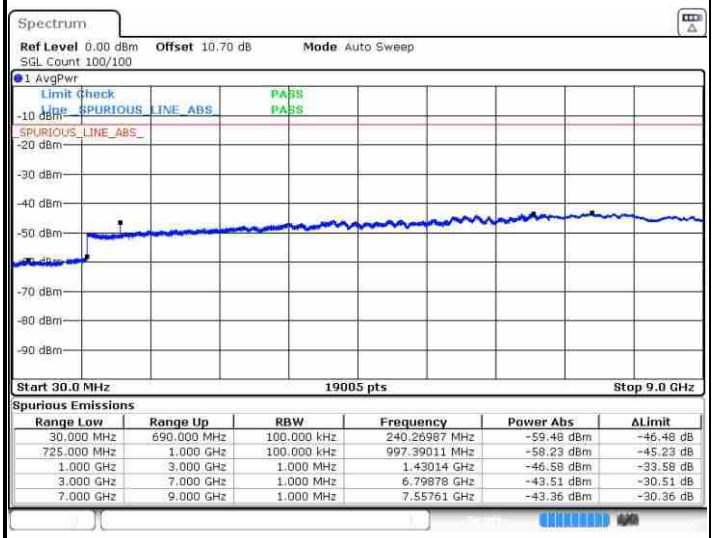


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	241.91904 MHz	-59.48 dBm	-46.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	992.44505 MHz	-58.35 dBm	-45.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-46.05 dBm	-33.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94876 GHz	-43.50 dBm	-30.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55061 GHz	-43.42 dBm	-30.42 dB

Date: 21.MAY.2019 22:39:27

Highest Channel / 64QAM



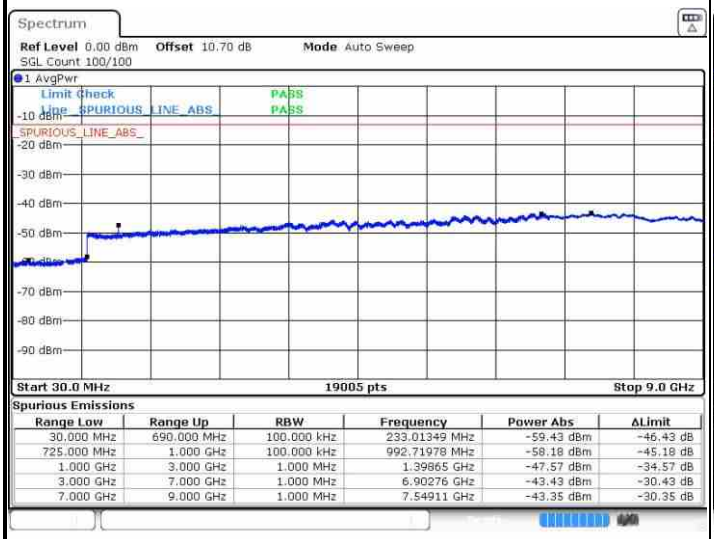
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	240.26987 MHz	-59.48 dBm	-46.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	997.39011 MHz	-58.23 dBm	-45.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-46.58 dBm	-33.58 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79878 GHz	-43.51 dBm	-30.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55761 GHz	-43.36 dBm	-30.36 dB

Date: 21.MAY.2019 22:42:39

LTE Band 12 / 3MHz

Lowest Channel / 64QAM

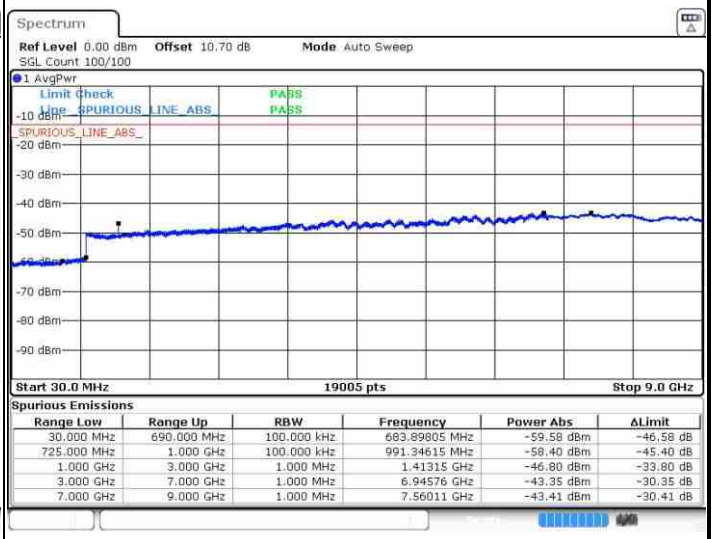


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.01349 MHz	-59.43 dBm	-46.43 dB
725.000 MHz	1.000 GHz	100.000 kHz	992.71978 MHz	-58.18 dBm	-45.18 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-47.57 dBm	-34.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90276 GHz	-43.43 dBm	-30.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54911 GHz	-43.35 dBm	-30.35 dB

Date: 21.MAY.2019 23:01:04

Middle Channel / 64QAM

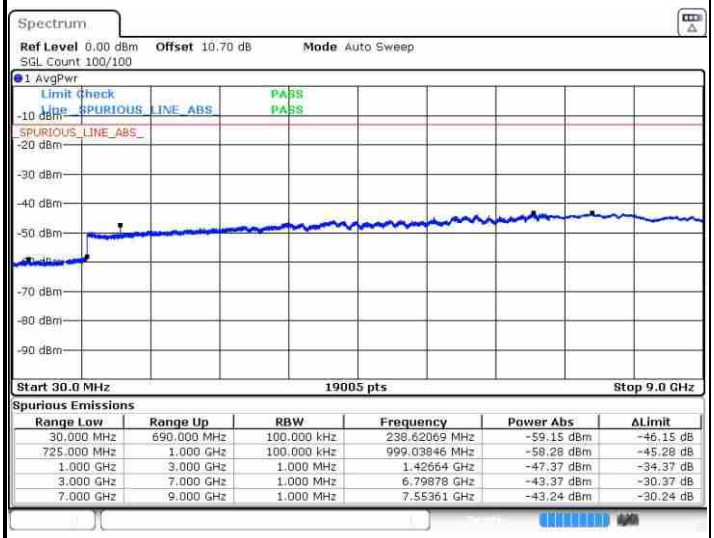


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.89805 MHz	-59.58 dBm	-46.58 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.34615 MHz	-58.40 dBm	-45.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41315 GHz	-46.80 dBm	-33.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94576 GHz	-43.35 dBm	-30.35 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56011 GHz	-43.41 dBm	-30.41 dB

Date: 21.MAY.2019 23:02:13

Highest Channel / 64QAM



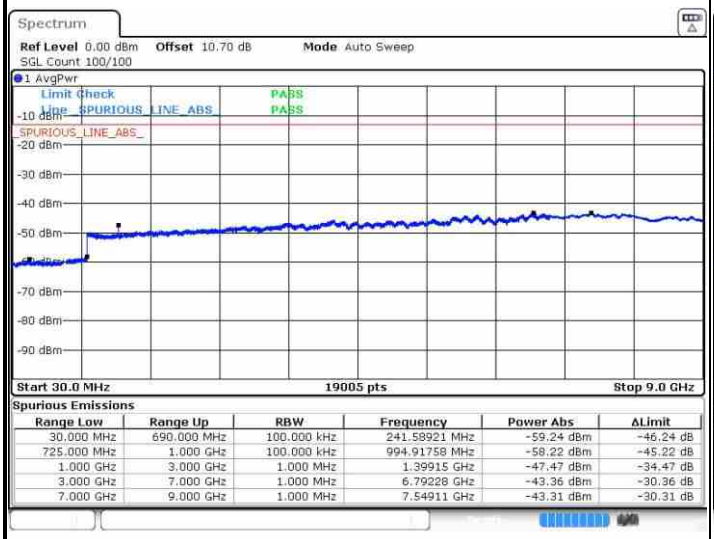
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	238.62069 MHz	-59.15 dBm	-46.15 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-58.28 dBm	-45.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-47.37 dBm	-34.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79878 GHz	-43.37 dBm	-30.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55361 GHz	-43.24 dBm	-30.24 dB

Date: 22.MAY.2019 02:14:46

LTE Band 12 / 5MHz

Lowest Channel / 64QAM

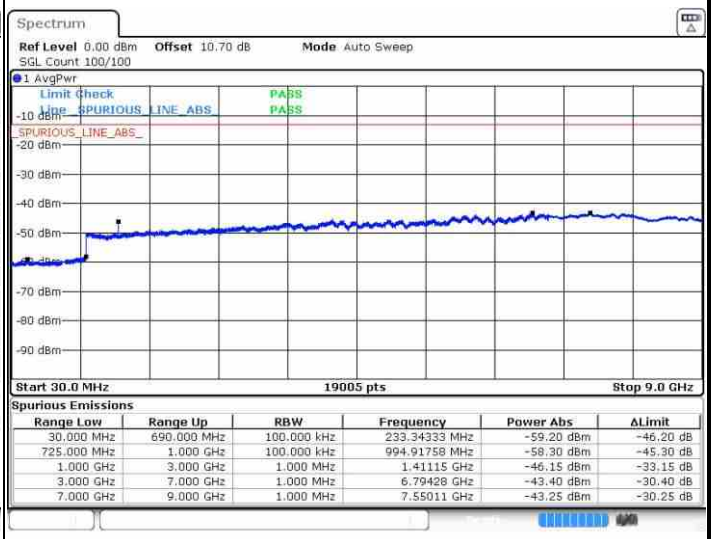


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	241.58921 MHz	-59.24 dBm	-46.24 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.91758 MHz	-58.22 dBm	-45.22 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-47.47 dBm	-34.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79228 GHz	-43.36 dBm	-30.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54911 GHz	-43.31 dBm	-30.31 dB

Date: 22.MAY.2019 02:17:59

Middle Channel / 64QAM

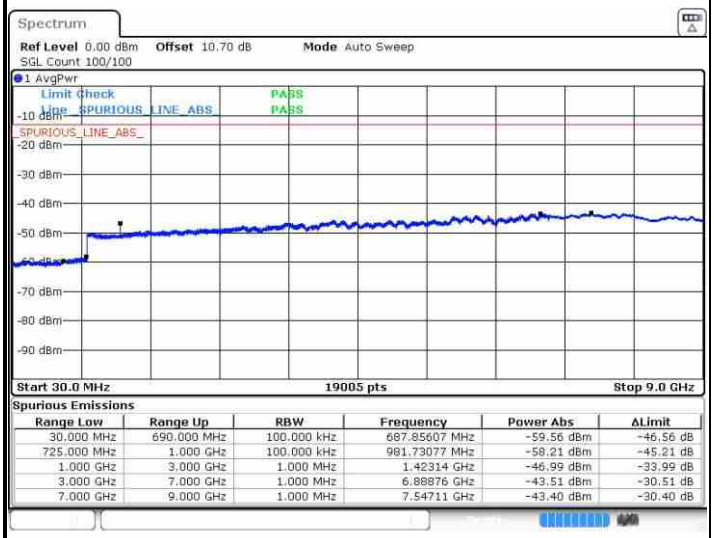


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.34333 MHz	-59.20 dBm	-46.20 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.91758 MHz	-58.30 dBm	-45.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-46.15 dBm	-33.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.79428 GHz	-43.40 dBm	-30.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55011 GHz	-43.25 dBm	-30.25 dB

Date: 22.MAY.2019 02:19:08

Highest Channel / 64QAM



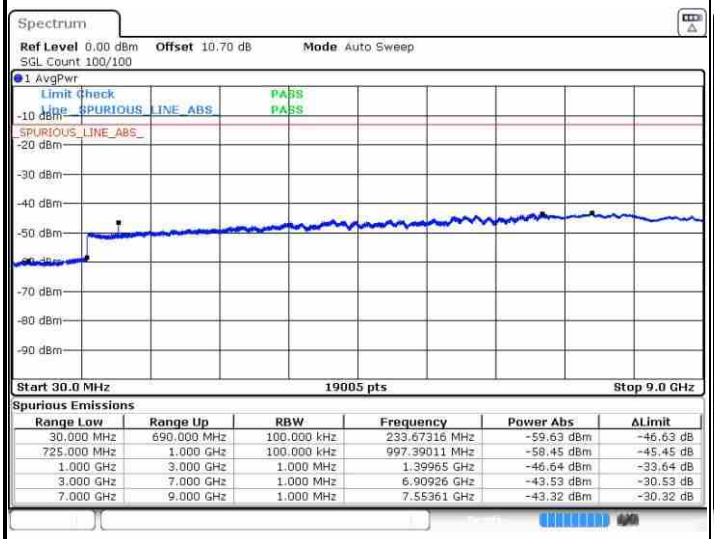
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.85607 MHz	-59.56 dBm	-46.56 dB
725.000 MHz	1.000 GHz	100.000 kHz	981.73077 MHz	-58.21 dBm	-45.21 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-46.99 dBm	-33.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88876 GHz	-43.51 dBm	-30.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54711 GHz	-43.40 dBm	-30.40 dB

Date: 22.MAY.2019 02:22:23

LTE Band 12 / 10MHz

Lowest Channel / 64QAM

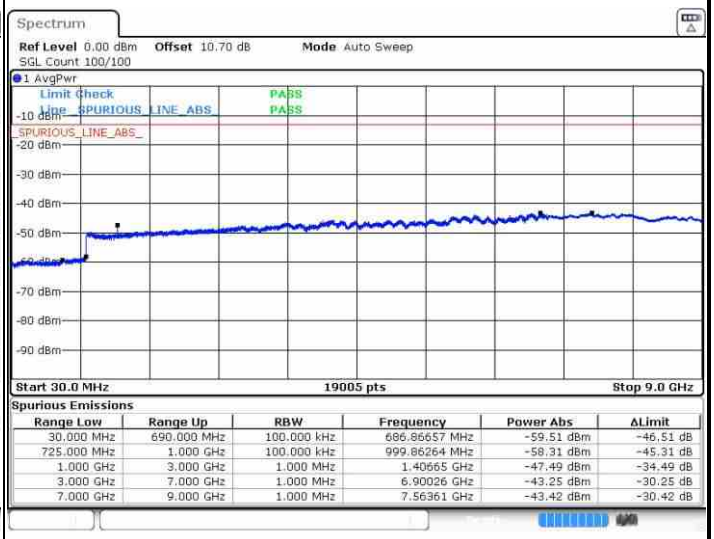


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	233.67316 MHz	-59.63 dBm	-46.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	997.39011 MHz	-58.45 dBm	-45.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-46.64 dBm	-33.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90926 GHz	-43.53 dBm	-30.53 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.55361 GHz	-43.32 dBm	-30.32 dB

Date: 22.MAY.2019 02:55:56

Middle Channel / 64QAM

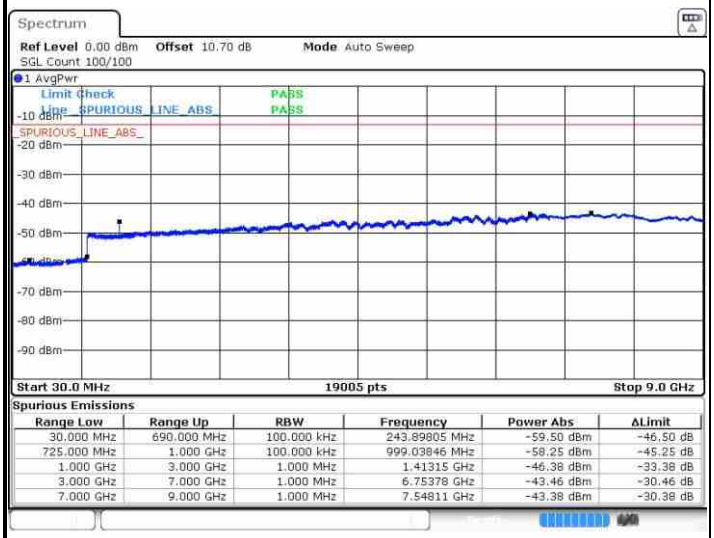


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-59.51 dBm	-46.51 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.86264 MHz	-58.31 dBm	-45.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-47.49 dBm	-34.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90026 GHz	-43.25 dBm	-30.25 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.56361 GHz	-43.42 dBm	-30.42 dB

Date: 22.MAY.2019 02:57:06

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	243.89805 MHz	-59.50 dBm	-46.50 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.03846 MHz	-58.25 dBm	-45.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41315 GHz	-46.38 dBm	-33.38 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.75378 GHz	-43.46 dBm	-30.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.54811 GHz	-43.38 dBm	-30.38 dB

Date: 22.MAY.2019 03:00:19

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	0.0078	PASS
40	Normal Voltage	0.0052	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0069	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0079	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.65 V.；Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset (△f) (Hz)	Result
50	Normal Voltage	-5.5	PASS
40	Normal Voltage	3.7	
30	Normal Voltage	0.3	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	0.7	
0	Normal Voltage	-4.9	
-10	Normal Voltage	1.7	
-20	Normal Voltage	1.1	
-30	Normal Voltage	-0.3	
20	Maximum Voltage	-5.6	
20	Normal Voltage	0	
20	Battery End Point	0.9	

|MAX(△f)| = 5.6Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(△f)|	699.022694	≧ 699 MHz	PASS
f_H + |MAX(△f)|	715.964406	≦ 716 MHz	

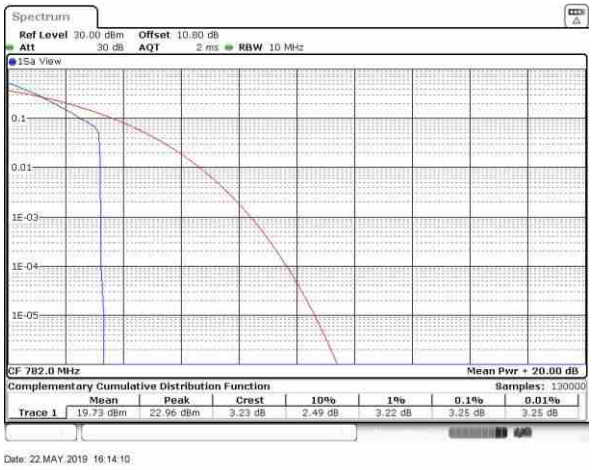
LTE Band 13

Peak-to-Average Ratio

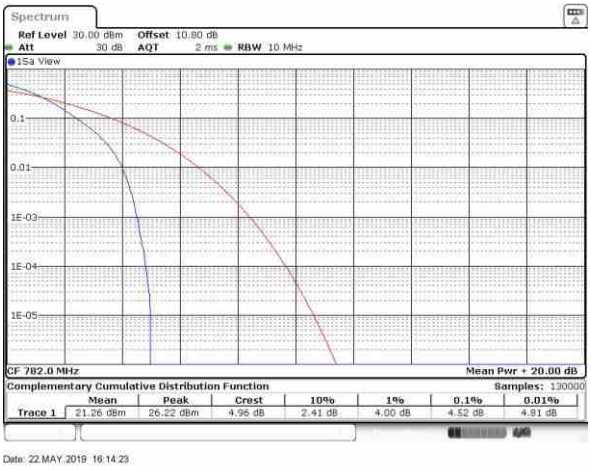
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.25	4.52	3.94	5.59	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.81	6.23	-	-	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

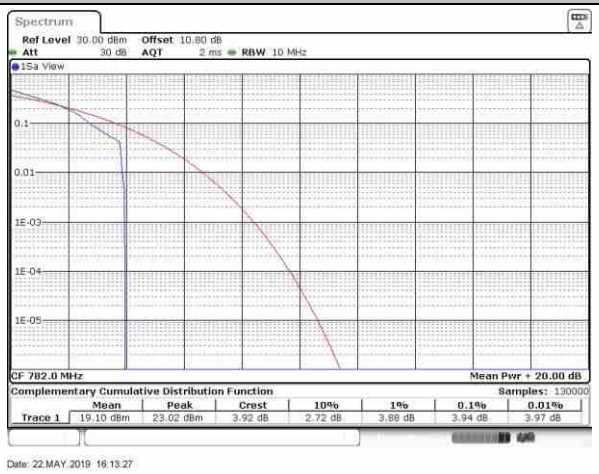


Middle Channel / Full RB

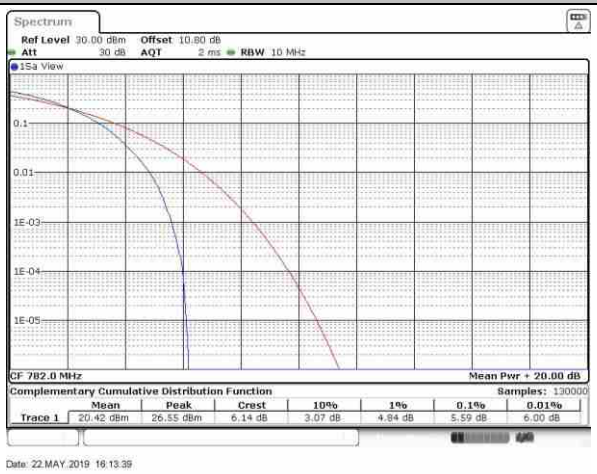


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

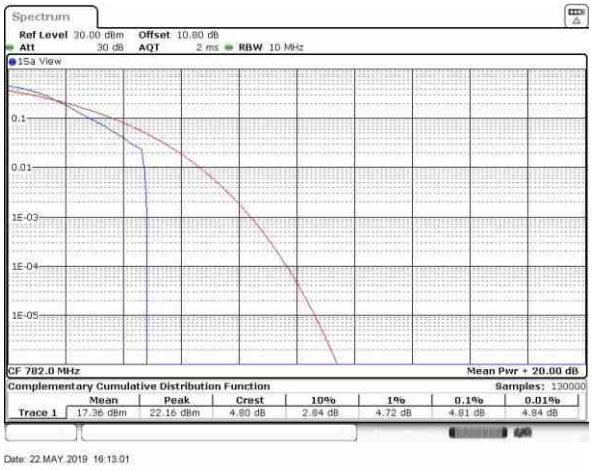


Middle Channel / Full RB



LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



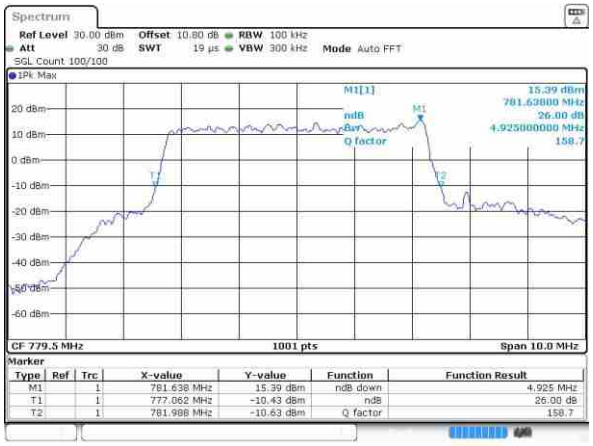
Middle Channel / Full RB

26dB Bandwidth

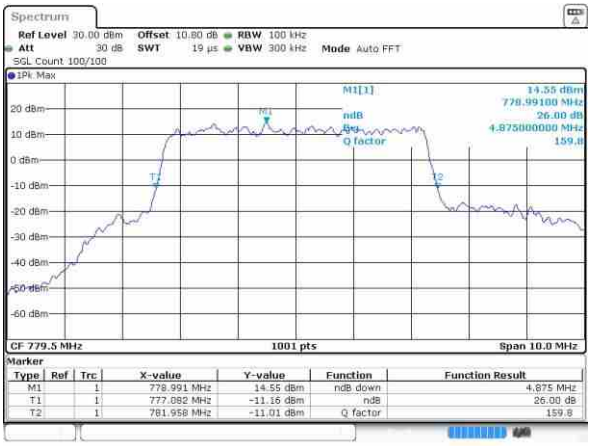
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.93	4.88	-	-	-	-	-	-
Middle CH	-	-	-	-	4.85	4.91	9.77	9.83	-	-	-	-
Highest CH	-	-	-	-	4.86	4.86	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.88	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.86	-	9.79	-	-	-	-	-
Highest CH	-	-	-	-	4.88	-	-	-	-	-	-	-

LTE Band 13

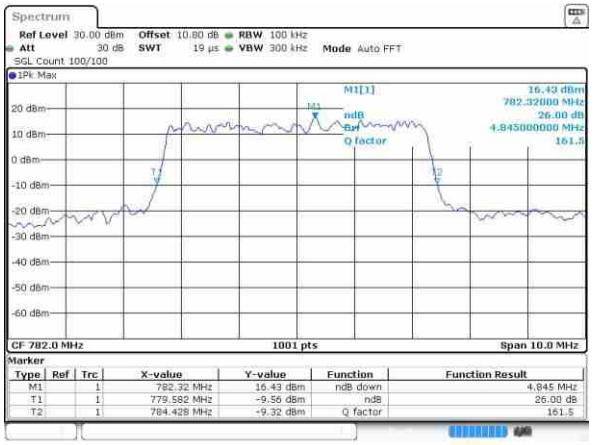
Lowest Channel / 5MHz / QPSK



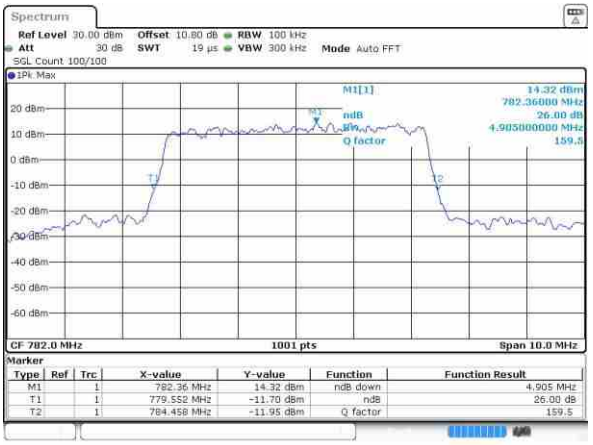
Lowest Channel / 5MHz / 16QAM



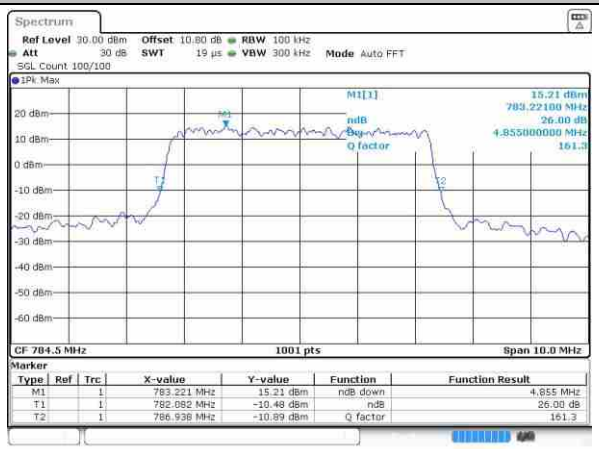
Middle Channel / 5MHz / QPSK



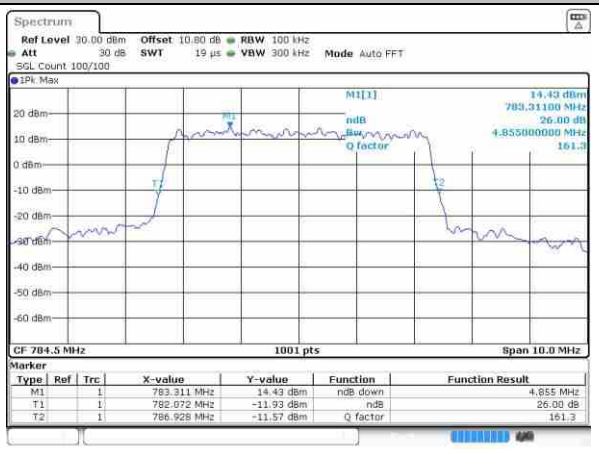
Middle Channel / 5MHz / 16QAM

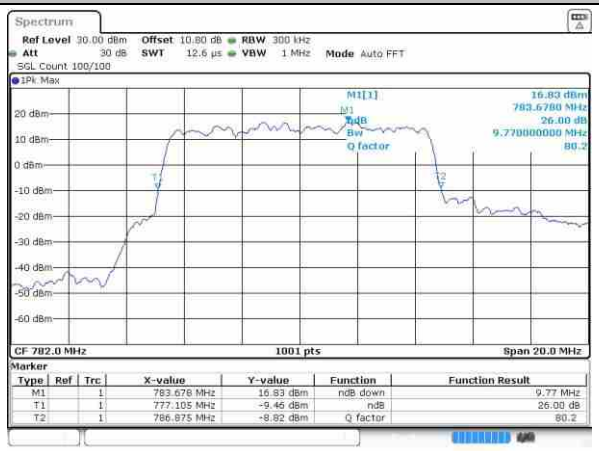
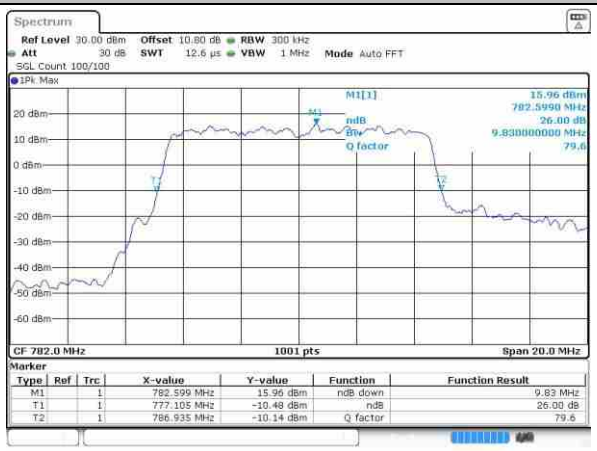


Highest Channel / 5MHz / QPSK



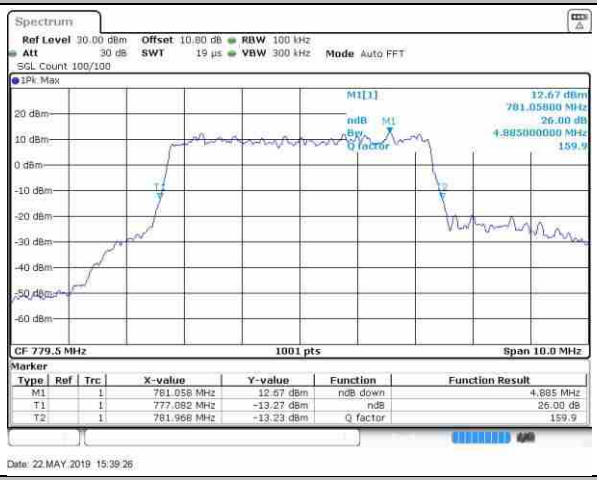
Highest Channel / 5MHz / 16QAM



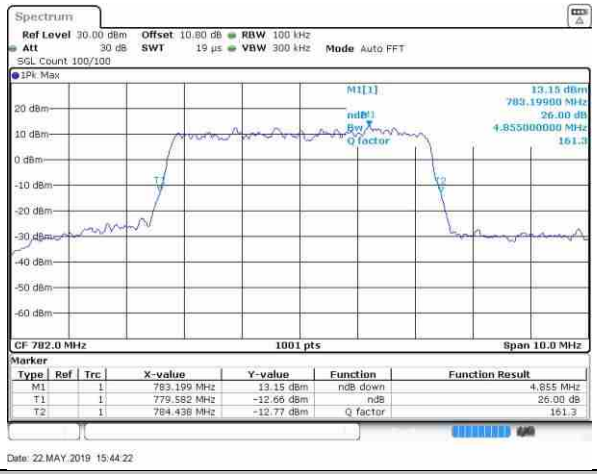
LTE Band 13	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
	

LTE Band 13

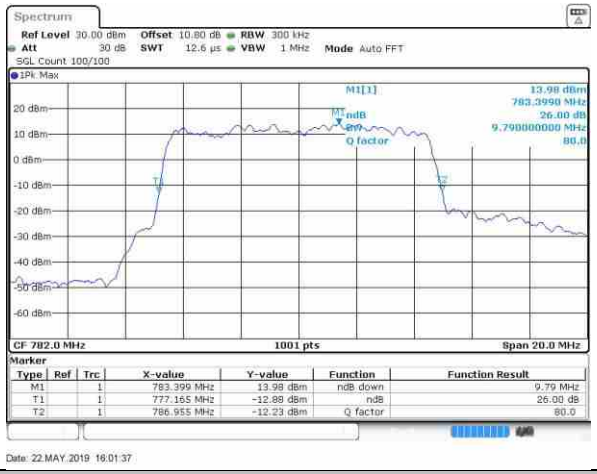
Lowest Channel / 5MHz / 64QAM



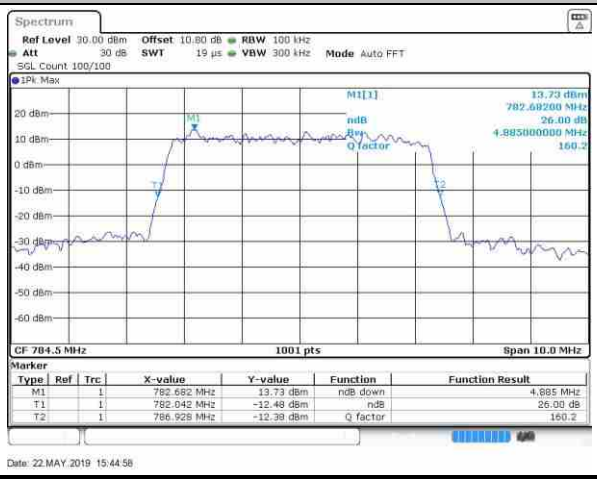
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

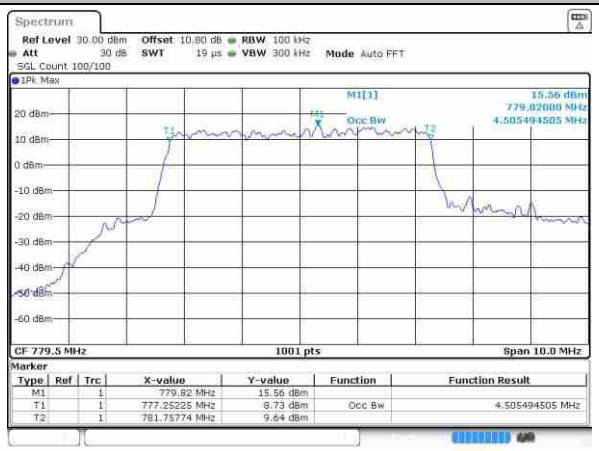


Occupied Bandwidth

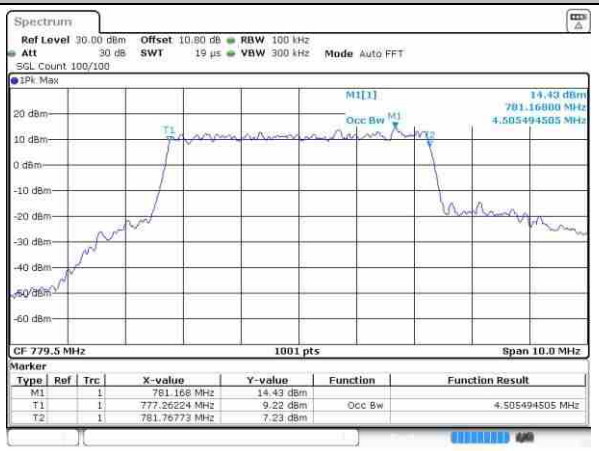
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.49	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.50	4.50	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-

LTE Band 13

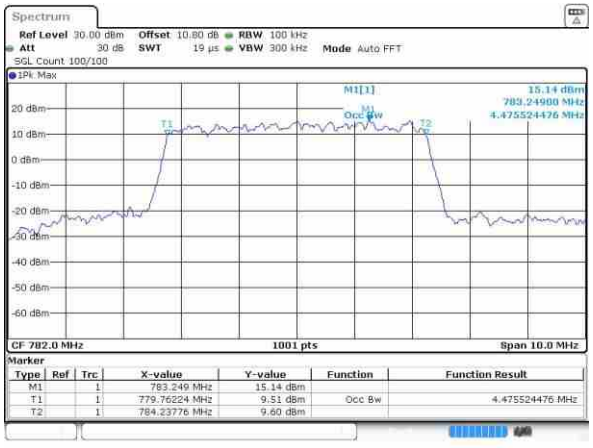
Lowest Channel / 5MHz / QPSK



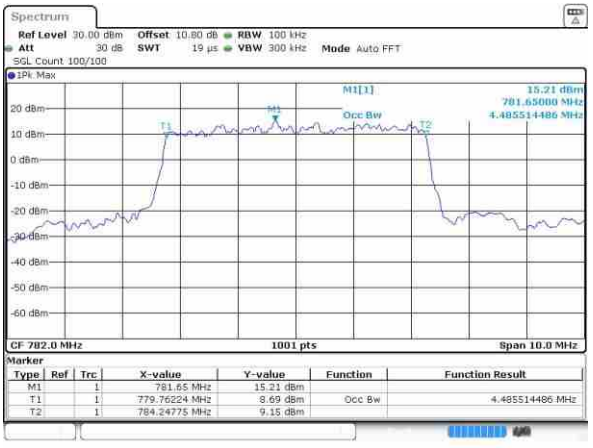
Lowest Channel / 5MHz / 16QAM



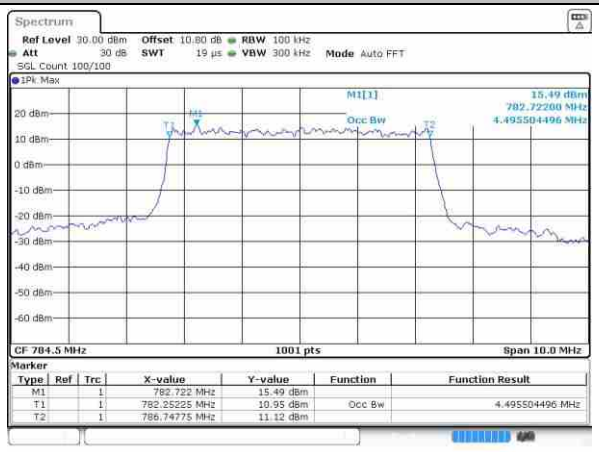
Middle Channel / 5MHz / QPSK



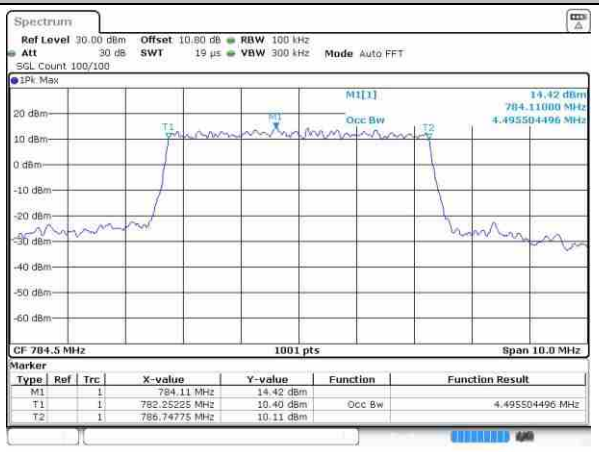
Middle Channel / 5MHz / 16QAM

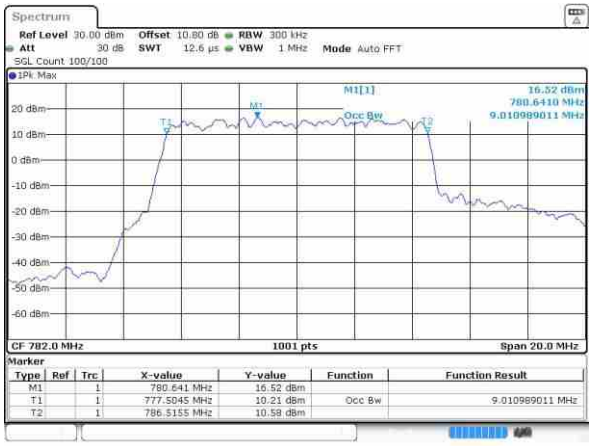
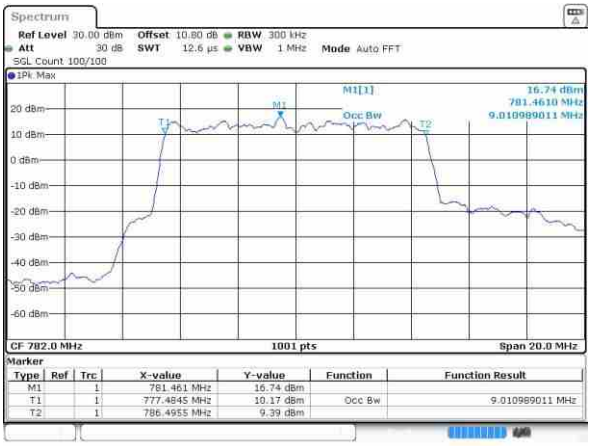


Highest Channel / 5MHz / QPSK



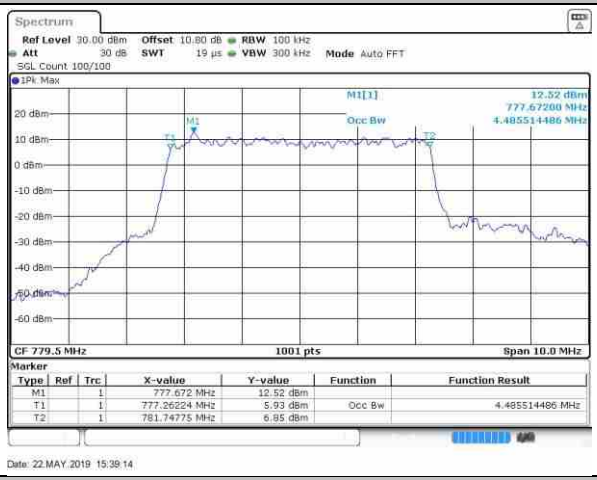
Highest Channel / 5MHz / 16QAM



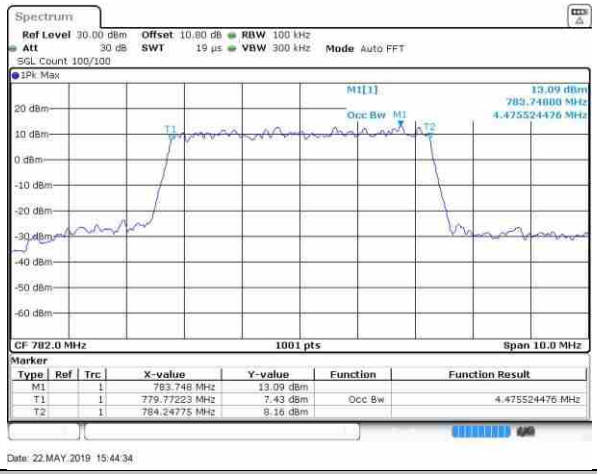
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 13

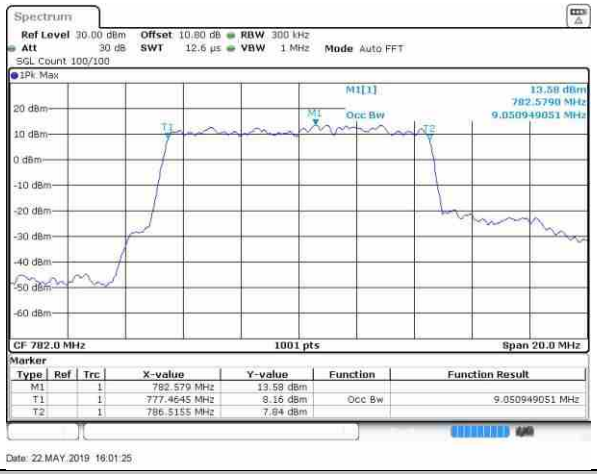
Lowest Channel / 5MHz / 64QAM



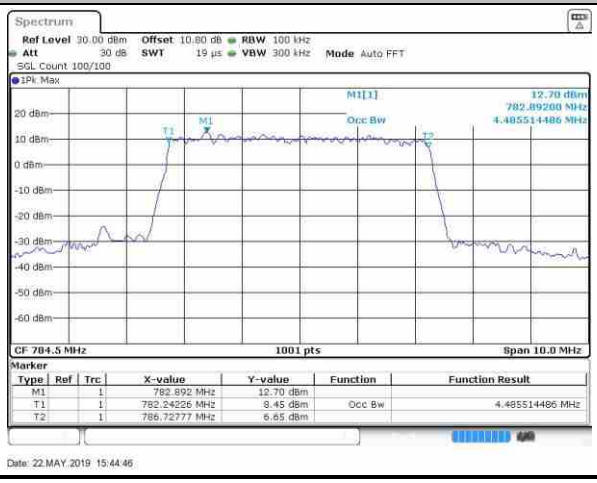
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



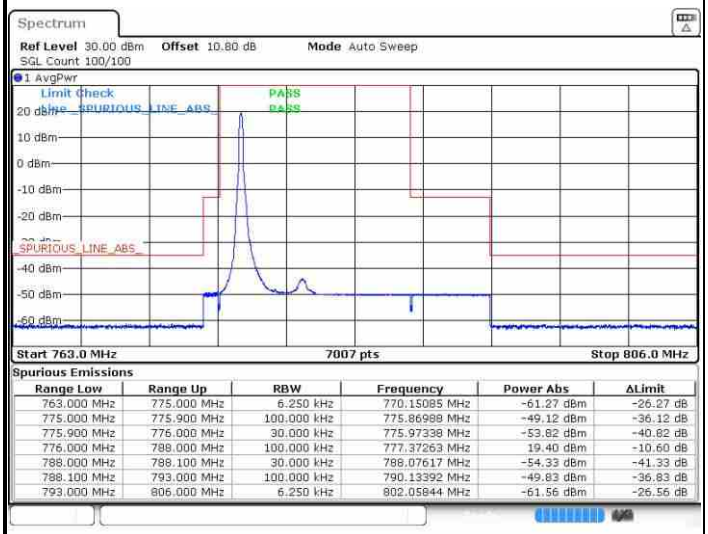
Highest Channel / 5MHz / 64QAM



Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

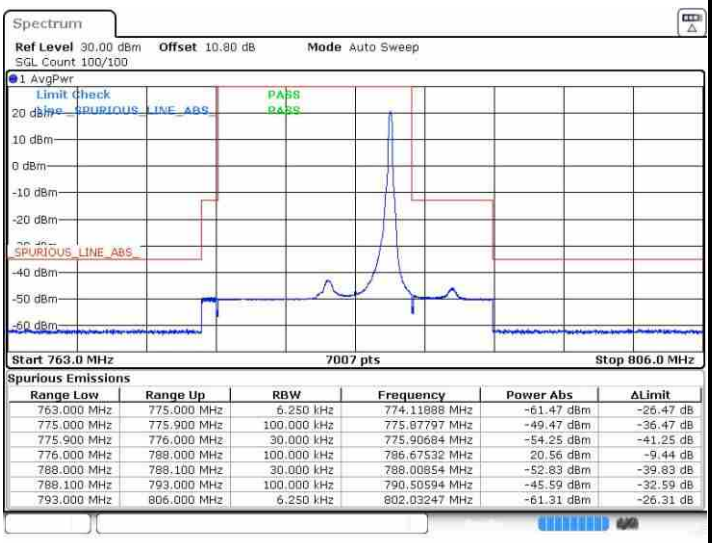


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	770.15085 MHz	-61.27 dBm	-26.27 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86988 MHz	-49.12 dBm	-36.12 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97338 MHz	-53.82 dBm	-40.82 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.37263 MHz	19.40 dBm	-10.60 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07617 MHz	-54.33 dBm	-41.33 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.13392 MHz	-49.83 dBm	-36.83 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.05844 MHz	-61.56 dBm	-26.56 dB

Date: 22.MAY.2019 16:24:27

Highest Band Edge / 1 RB

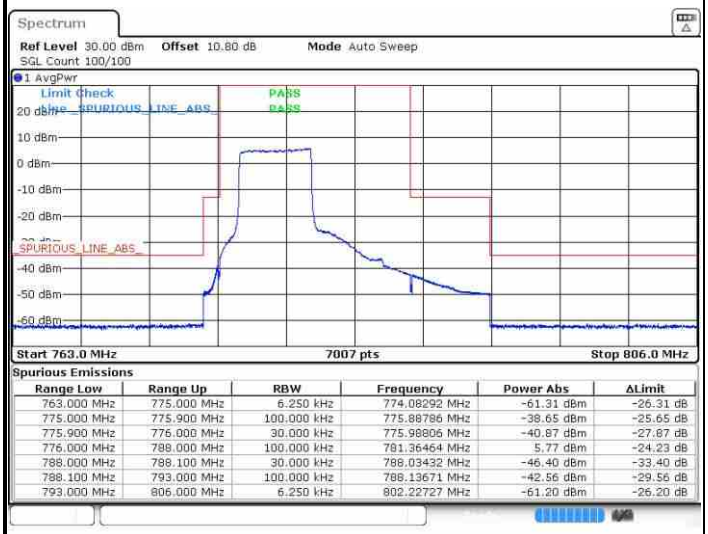


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.11888 MHz	-61.47 dBm	-26.47 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87797 MHz	-49.47 dBm	-36.47 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90684 MHz	-54.25 dBm	-41.25 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.67532 MHz	20.56 dBm	-9.44 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00854 MHz	-52.83 dBm	-39.83 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.50594 MHz	-45.59 dBm	-32.59 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.03247 MHz	-61.31 dBm	-26.31 dB

Date: 22.MAY.2019 16:31:12

Lowest Band Edge / Full RB

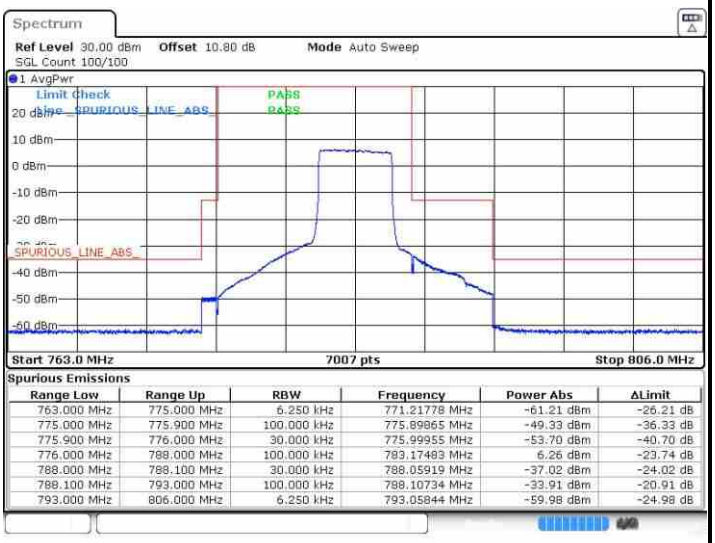


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.08292 MHz	-61.31 dBm	-26.31 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88786 MHz	-38.65 dBm	-25.65 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98806 MHz	-40.87 dBm	-27.87 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.36464 MHz	5.77 dBm	-24.23 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03432 MHz	-46.40 dBm	-33.40 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13671 MHz	-42.56 dBm	-29.56 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.22727 MHz	-61.20 dBm	-26.20 dB

Date: 22.MAY.2019 16:19:23

Highest Band Edge / Full RB



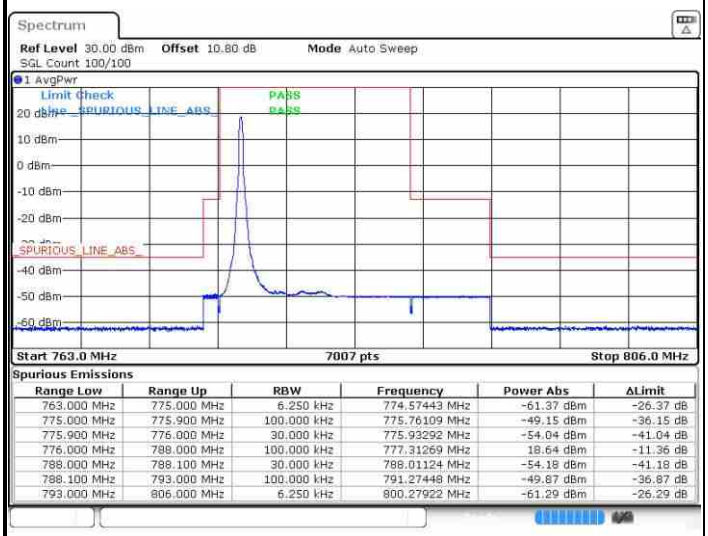
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.21778 MHz	-61.21 dBm	-26.21 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89965 MHz	-49.33 dBm	-36.33 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99955 MHz	-53.70 dBm	-40.70 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.17483 MHz	6.26 dBm	-23.74 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05919 MHz	-37.02 dBm	-24.02 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10734 MHz	-33.91 dBm	-20.91 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.05844 MHz	-59.98 dBm	-24.98 dB

Date: 22.MAY.2019 16:26:09

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

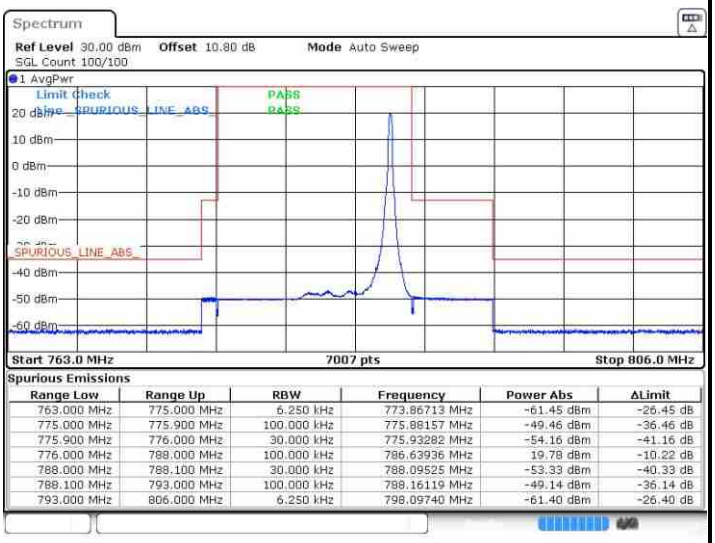


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.57443 MHz	-61.37 dBm	-26.37 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.76109 MHz	-49.15 dBm	-36.15 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93292 MHz	-54.04 dBm	-41.04 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.31269 MHz	18.64 dBm	-11.36 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01124 MHz	-54.18 dBm	-41.18 dB
788.100 MHz	793.000 MHz	100.000 kHz	791.27448 MHz	-49.87 dBm	-36.87 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.27922 MHz	-61.29 dBm	-26.29 dB

Date: 22.MAY.2019 16:22:46

Highest Band Edge / 1 RB

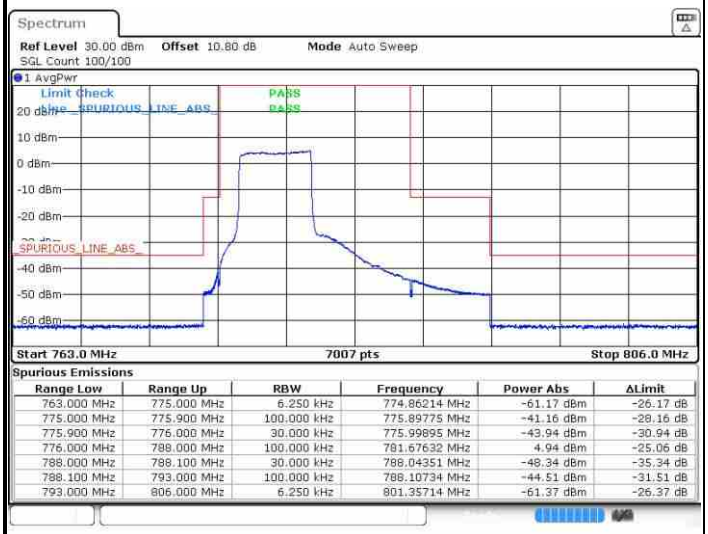


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.86713 MHz	-61.45 dBm	-26.45 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88157 MHz	-49.46 dBm	-36.46 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93282 MHz	-54.16 dBm	-41.16 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.63936 MHz	19.78 dBm	-10.22 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09525 MHz	-53.33 dBm	-40.33 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16119 MHz	-49.14 dBm	-36.14 dB
793.000 MHz	806.000 MHz	6.250 kHz	798.09740 MHz	-61.40 dBm	-26.40 dB

Date: 22.MAY.2019 16:29:31

Lowest Band Edge / Full RB

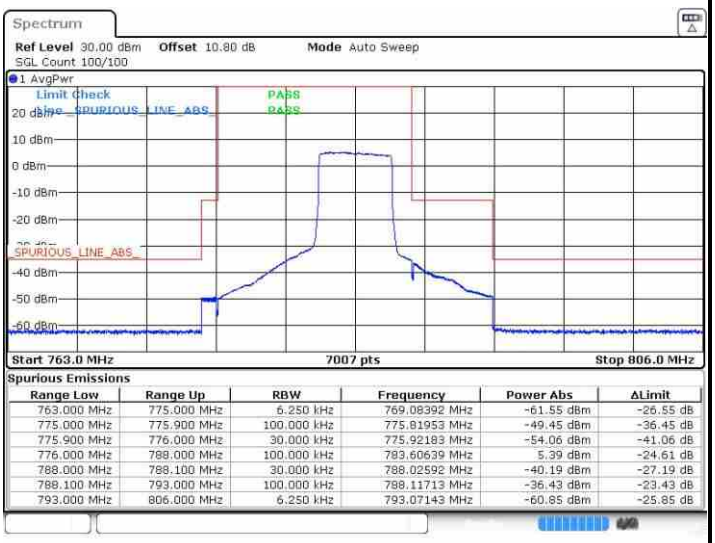


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.86214 MHz	-61.17 dBm	-26.17 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89775 MHz	-41.16 dBm	-28.16 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99895 MHz	-43.94 dBm	-30.94 dB
776.000 MHz	788.000 MHz	100.000 kHz	781.67632 MHz	4.94 dBm	-25.06 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04351 MHz	-48.34 dBm	-35.34 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10734 MHz	-44.51 dBm	-31.51 dB
793.000 MHz	806.000 MHz	6.250 kHz	801.35714 MHz	-61.37 dBm	-26.37 dB

Date: 22.MAY.2019 16:21:05

Highest Band Edge / Full RB



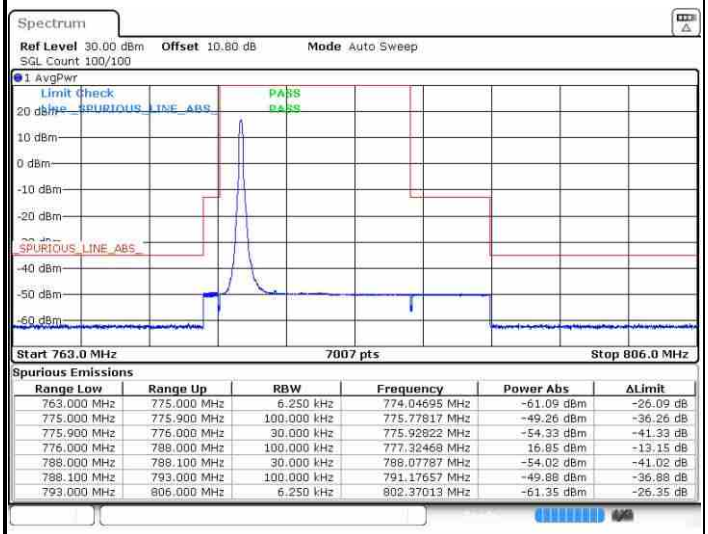
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.08392 MHz	-61.55 dBm	-26.55 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.81953 MHz	-49.45 dBm	-36.45 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92183 MHz	-54.06 dBm	-41.06 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.60639 MHz	5.39 dBm	-24.61 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02592 MHz	-40.19 dBm	-27.19 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.11713 MHz	-36.43 dBm	-23.43 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.07143 MHz	-60.85 dBm	-25.85 dB

Date: 22.MAY.2019 16:27:50

LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

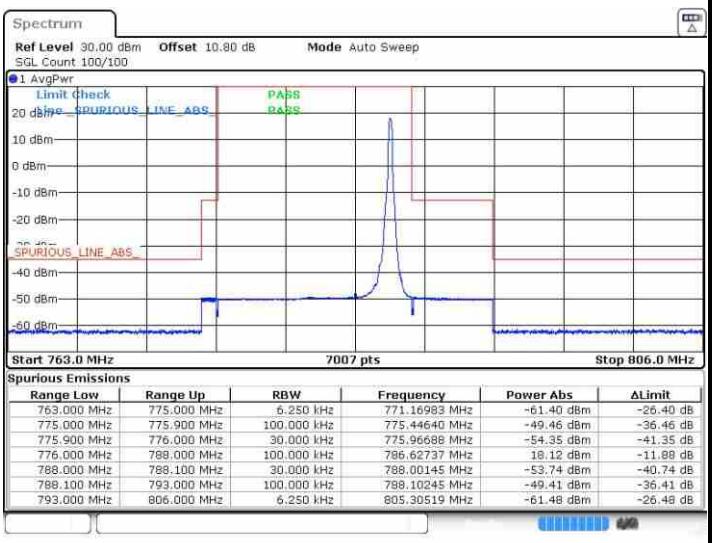


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.04695 MHz	-61.09 dBm	-26.09 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.77817 MHz	-49.26 dBm	-36.26 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92822 MHz	-54.33 dBm	-41.33 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.32468 MHz	16.85 dBm	-13.15 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07787 MHz	-54.02 dBm	-41.02 dB
788.100 MHz	793.000 MHz	100.000 kHz	791.17657 MHz	-49.88 dBm	-36.88 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.37013 MHz	-61.35 dBm	-26.35 dB

Date: 22.MAY.2019 16:34:35

Highest Band Edge / 1 RB

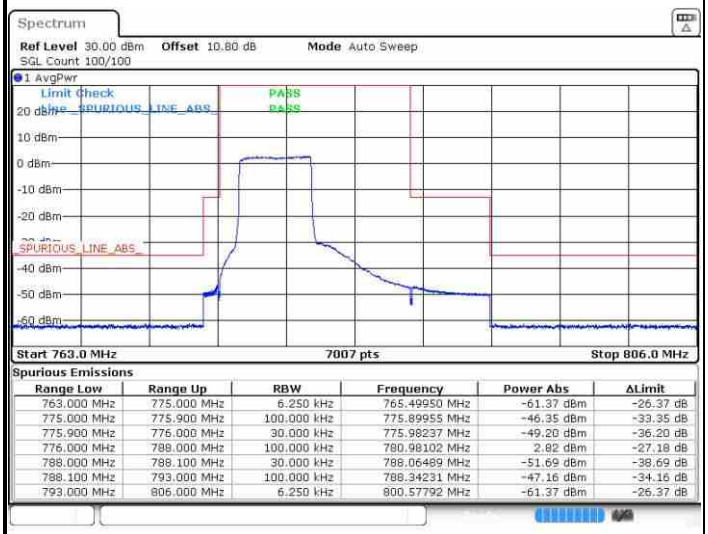


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.16983 MHz	-61.40 dBm	-26.40 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.44640 MHz	-49.46 dBm	-36.46 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96688 MHz	-54.35 dBm	-41.35 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	18.12 dBm	-11.88 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00145 MHz	-53.74 dBm	-40.74 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-49.41 dBm	-36.41 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.30519 MHz	-61.48 dBm	-26.48 dB

Date: 22.MAY.2019 16:37:58

Lowest Band Edge / Full RB

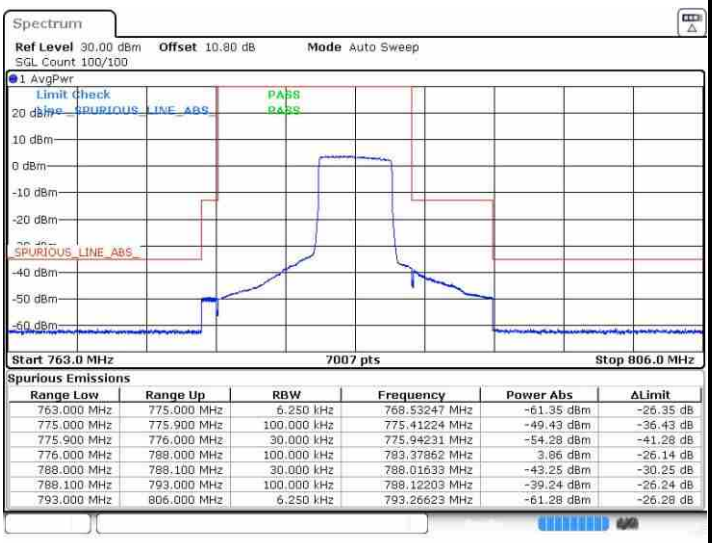


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	765.49950 MHz	-61.37 dBm	-26.37 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-46.35 dBm	-33.35 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98237 MHz	-49.20 dBm	-36.20 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.98102 MHz	2.82 dBm	-27.18 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06489 MHz	-51.69 dBm	-38.69 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.34231 MHz	-47.16 dBm	-34.16 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.57792 MHz	-61.37 dBm	-26.37 dB

Date: 22.MAY.2019 16:32:54

Highest Band Edge / Full RB



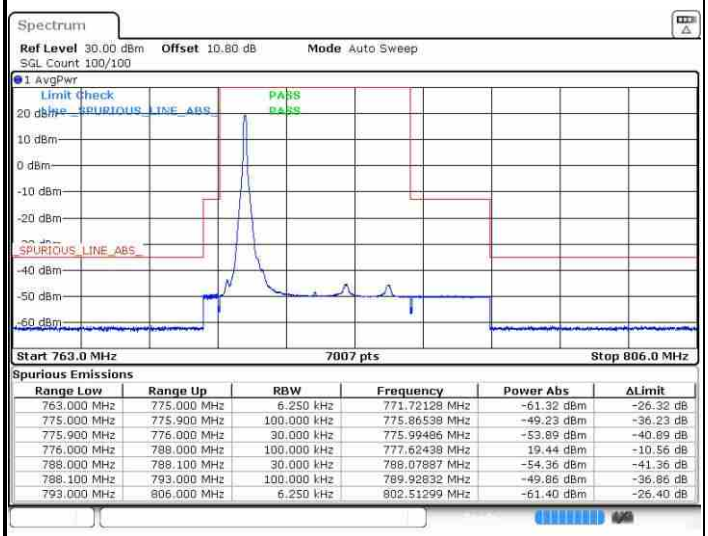
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.53247 MHz	-61.35 dBm	-26.35 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.41224 MHz	-49.43 dBm	-36.43 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94231 MHz	-54.28 dBm	-41.28 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.37862 MHz	3.86 dBm	-26.14 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01633 MHz	-43.25 dBm	-30.25 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12203 MHz	-39.24 dBm	-26.24 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.26623 MHz	-61.28 dBm	-26.28 dB

Date: 22.MAY.2019 16:36:17

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

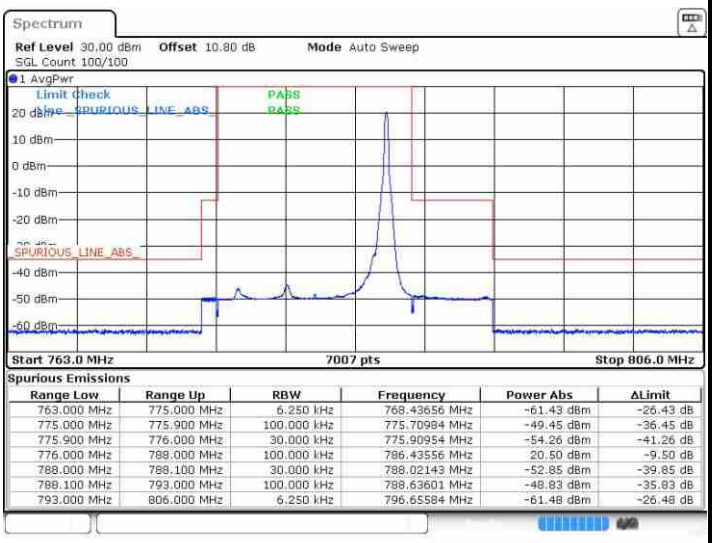


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.72128 MHz	-61.32 dBm	-26.32 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86538 MHz	-49.23 dBm	-36.23 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99486 MHz	-53.89 dBm	-40.89 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.62438 MHz	19.44 dBm	-10.56 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07887 MHz	-54.36 dBm	-41.36 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.92832 MHz	-49.86 dBm	-36.86 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.51299 MHz	-61.40 dBm	-26.40 dB

Date: 22.MAY.2019 16:49:43

Highest Band Edge / 1 RB

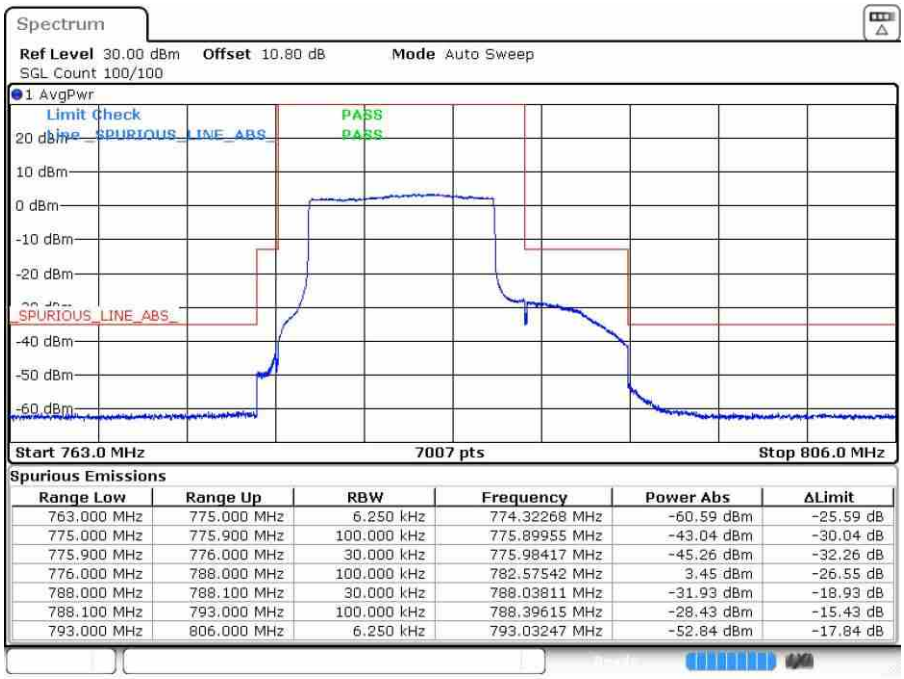


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.43656 MHz	-61.43 dBm	-26.43 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.70984 MHz	-49.45 dBm	-36.45 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90954 MHz	-54.26 dBm	-41.26 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.43556 MHz	20.50 dBm	-9.50 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02143 MHz	-52.85 dBm	-39.85 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.63601 MHz	-48.83 dBm	-35.83 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.65584 MHz	-61.48 dBm	-26.48 dB

Date: 22.MAY.2019 16:51:24

Band Edge / Full RB



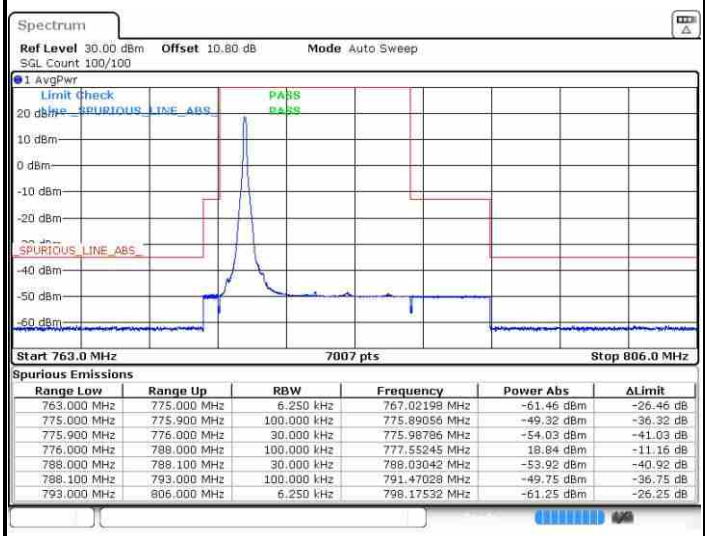
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.32268 MHz	-60.59 dBm	-25.59 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-43.04 dBm	-30.04 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98417 MHz	-45.26 dBm	-32.26 dB
776.000 MHz	788.000 MHz	100.000 kHz	782.57542 MHz	3.45 dBm	-26.55 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03811 MHz	-31.93 dBm	-18.93 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.39615 MHz	-28.43 dBm	-15.43 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.03247 MHz	-52.84 dBm	-17.84 dB

Date: 22.MAY.2019 16:44:41

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

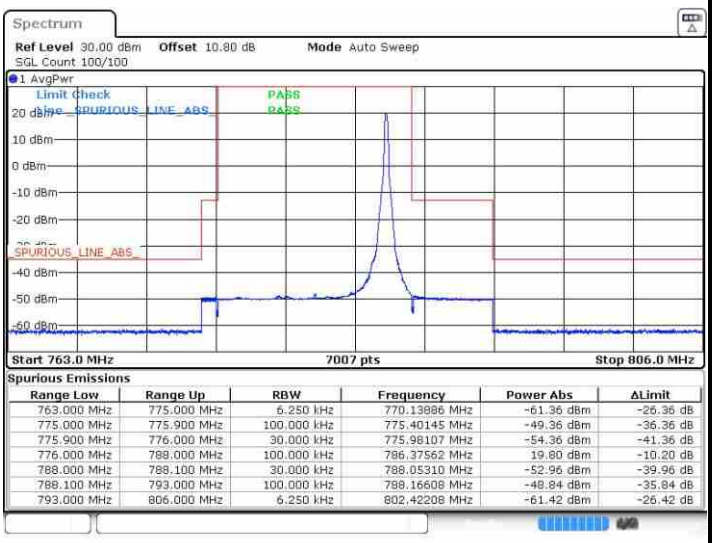


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	767.02198 MHz	-61.46 dBm	-26.46 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89056 MHz	-49.32 dBm	-36.32 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98786 MHz	-54.03 dBm	-41.03 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.55245 MHz	18.84 dBm	-11.16 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03042 MHz	-53.92 dBm	-40.92 dB
788.100 MHz	793.000 MHz	100.000 kHz	791.47028 MHz	-49.75 dBm	-36.75 dB
793.000 MHz	806.000 MHz	6.250 kHz	798.17532 MHz	-61.25 dBm	-26.25 dB

Date: 22.MAY.2019 16:48:03

Highest Band Edge / 1 RB

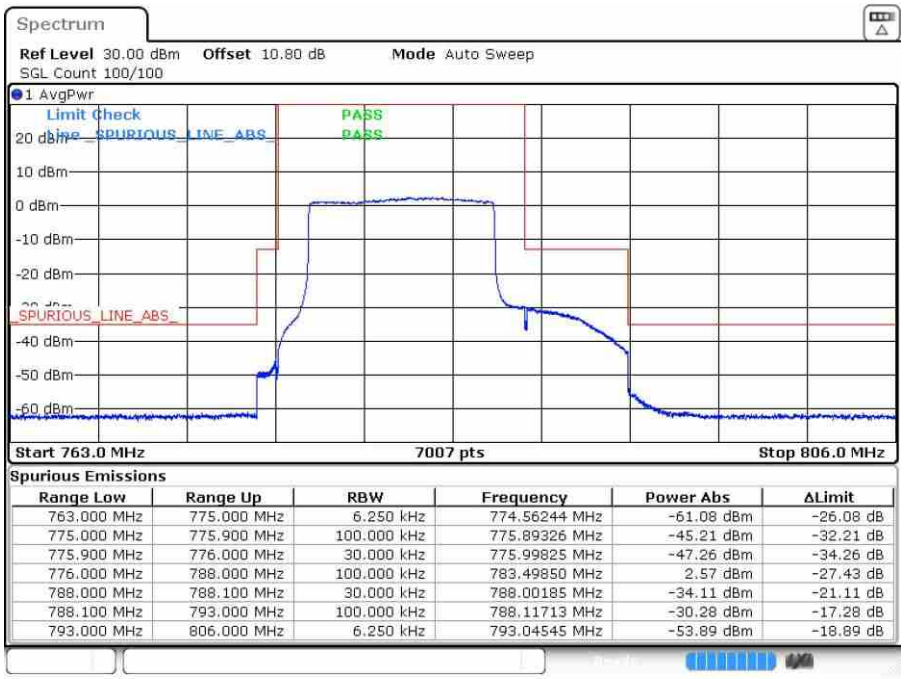


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	770.13986 MHz	-61.36 dBm	-26.36 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.40145 MHz	-49.36 dBm	-36.36 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98107 MHz	-54.36 dBm	-41.36 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.37562 MHz	19.80 dBm	-10.20 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05310 MHz	-52.96 dBm	-39.96 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16608 MHz	-48.84 dBm	-35.84 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.42208 MHz	-61.42 dBm	-26.42 dB

Date: 22.MAY.2019 16:53:05

Band Edge / Full RB



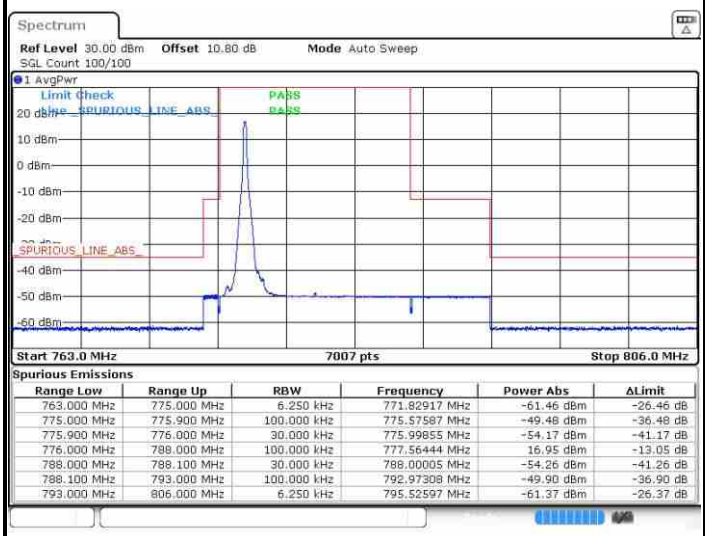
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.56244 MHz	-61.08 dBm	-26.08 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89326 MHz	-45.21 dBm	-32.21 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99825 MHz	-47.26 dBm	-34.26 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.49850 MHz	2.57 dBm	-27.43 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00185 MHz	-34.11 dBm	-21.11 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.11713 MHz	-30.28 dBm	-17.28 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-53.89 dBm	-18.89 dB

Date: 22.MAY.2019 16:46:22

LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

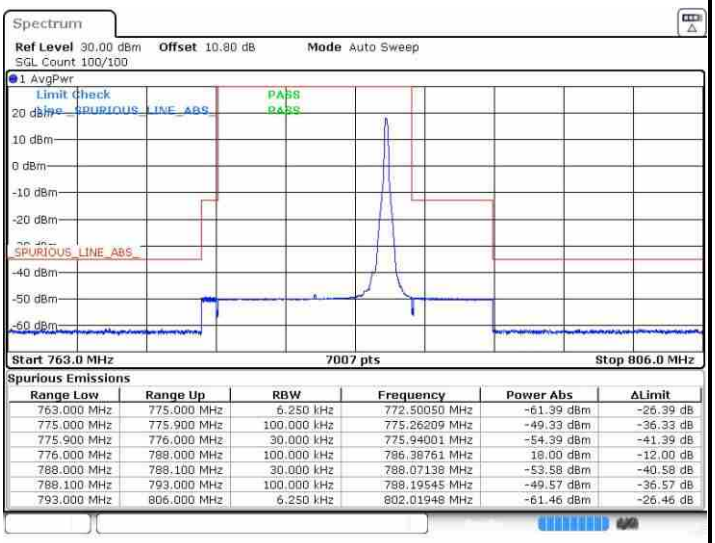


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.82917 MHz	-61.46 dBm	-26.46 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.57587 MHz	-49.48 dBm	-36.48 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99855 MHz	-54.17 dBm	-41.17 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.56444 MHz	16.95 dBm	-13.05 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-54.26 dBm	-41.26 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.97308 MHz	-49.90 dBm	-36.90 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.52597 MHz	-61.37 dBm	-26.37 dB

Date: 22.MAY.2019 16:41:20

Highest Band Edge / 1 RB

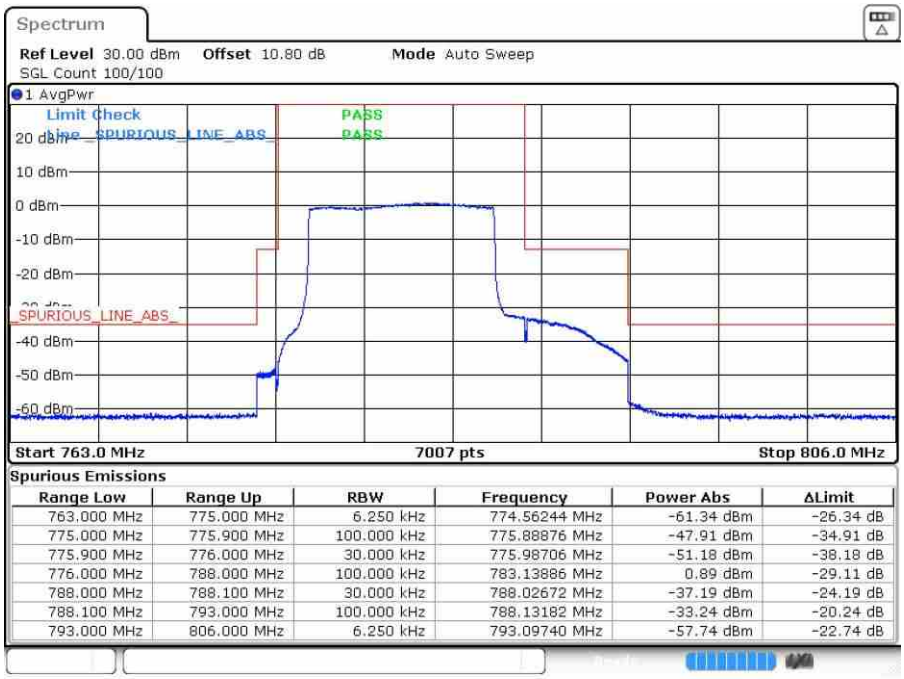


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	772.50050 MHz	-61.39 dBm	-26.39 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.26209 MHz	-49.33 dBm	-36.33 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94001 MHz	-54.39 dBm	-41.39 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	18.00 dBm	-12.00 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07138 MHz	-53.58 dBm	-40.58 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.19545 MHz	-49.57 dBm	-36.57 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.01948 MHz	-61.46 dBm	-26.46 dB

Date: 22.MAY.2019 16:43:01

Band Edge / Full RB



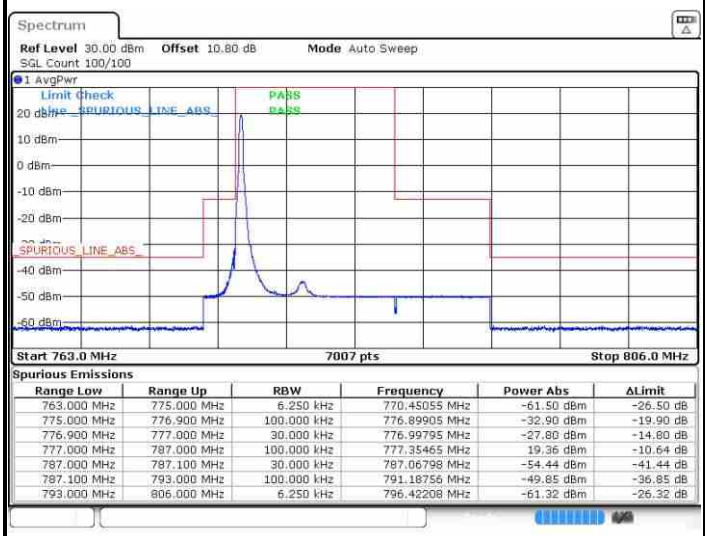
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.56244 MHz	-61.34 dBm	-26.34 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88876 MHz	-47.91 dBm	-34.91 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98706 MHz	-51.18 dBm	-38.18 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.13886 MHz	0.89 dBm	-29.11 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02672 MHz	-37.19 dBm	-24.19 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13182 MHz	-33.24 dBm	-20.24 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.09740 MHz	-57.74 dBm	-22.74 dB

Date: 22.MAY.2019 16:39:39

IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

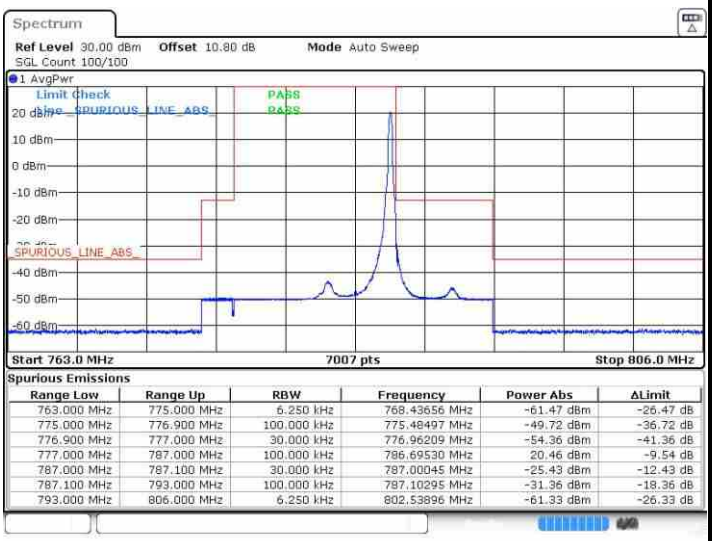


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	770.45055 MHz	-61.50 dBm	-26.50 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89905 MHz	-32.90 dBm	-19.90 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99795 MHz	-27.80 dBm	-14.80 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.35465 MHz	19.36 dBm	-10.64 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.06798 MHz	-54.44 dBm	-41.44 dB
787.100 MHz	793.000 MHz	100.000 kHz	791.18756 MHz	-49.85 dBm	-36.85 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.42208 MHz	-61.32 dBm	-26.32 dB

Date: 22.MAY.2019 15:26:35

Highest Band Edge / 1 RB

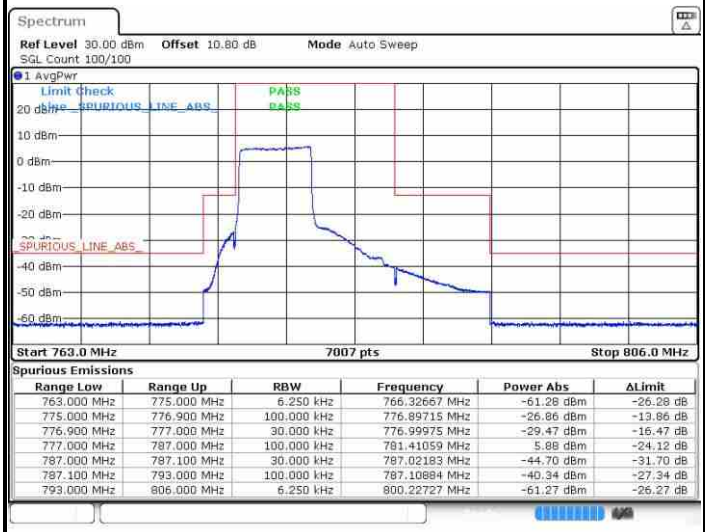


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.43656 MHz	-61.47 dBm	-26.47 dB
775.000 MHz	776.900 MHz	100.000 kHz	775.48497 MHz	-49.72 dBm	-36.72 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.96209 MHz	-54.36 dBm	-41.36 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.69530 MHz	20.46 dBm	-9.54 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00045 MHz	-25.43 dBm	-12.43 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10295 MHz	-31.36 dBm	-18.36 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.53896 MHz	-61.33 dBm	-26.33 dB

Date: 22.MAY.2019 15:37:39

Lowest Band Edge / Full RB

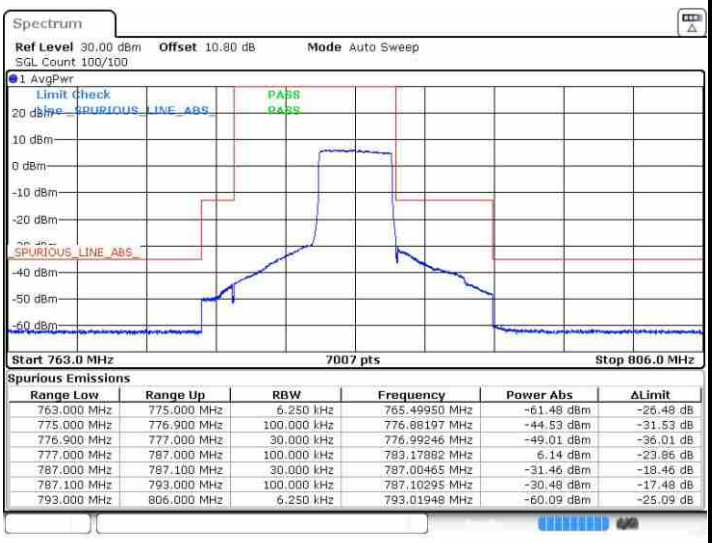


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.32667 MHz	-61.28 dBm	-26.28 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89715 MHz	-26.86 dBm	-13.86 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99975 MHz	-29.47 dBm	-16.47 dB
777.000 MHz	787.000 MHz	100.000 kHz	781.41059 MHz	5.88 dBm	-24.12 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.02183 MHz	-44.70 dBm	-31.70 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10884 MHz	-40.34 dBm	-27.34 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.22727 MHz	-61.27 dBm	-26.27 dB

Date: 22.MAY.2019 15:19:19

Highest Band Edge / Full RB



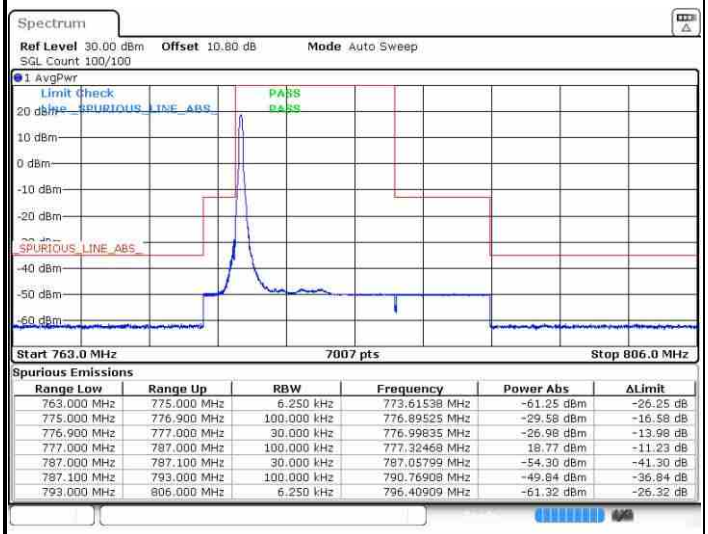
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	765.49950 MHz	-61.48 dBm	-26.48 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.88197 MHz	-44.53 dBm	-31.53 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99246 MHz	-49.01 dBm	-36.01 dB
777.000 MHz	787.000 MHz	100.000 kHz	783.17882 MHz	6.14 dBm	-23.86 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00465 MHz	-31.46 dBm	-18.46 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10295 MHz	-30.48 dBm	-17.48 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-60.09 dBm	-25.09 dB

Date: 22.MAY.2019 15:32:35

IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

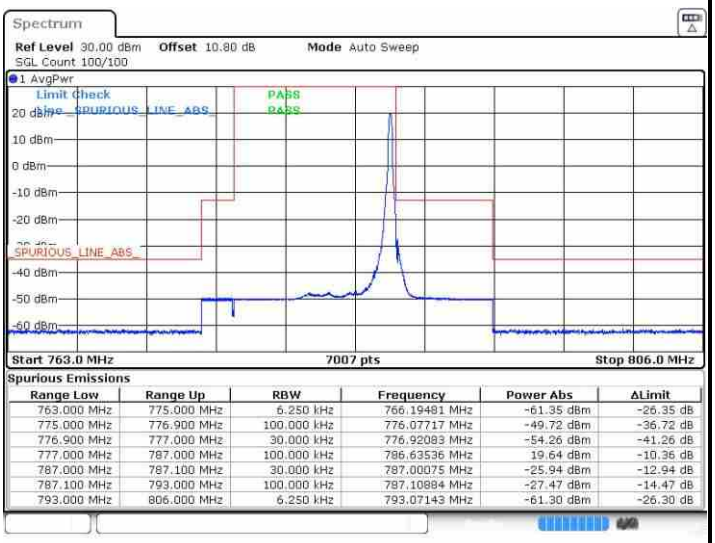


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.61538 MHz	-61.25 dBm	-26.25 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89525 MHz	-29.58 dBm	-16.58 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99835 MHz	-26.98 dBm	-13.98 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.32468 MHz	18.77 dBm	-11.23 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.05799 MHz	-54.30 dBm	-41.30 dB
787.100 MHz	793.000 MHz	100.000 kHz	790.76908 MHz	-49.84 dBm	-36.84 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.40909 MHz	-61.32 dBm	-26.32 dB

Date: 22.MAY.2019 15:24:54

Highest Band Edge / 1 RB

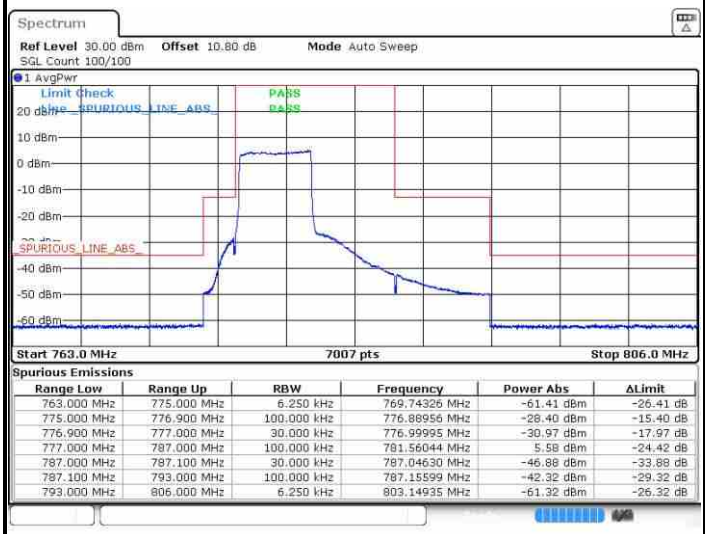


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.19481 MHz	-61.35 dBm	-26.35 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.07717 MHz	-49.72 dBm	-36.72 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.92083 MHz	-54.26 dBm	-41.26 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.63536 MHz	19.64 dBm	-10.36 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00075 MHz	-25.94 dBm	-12.94 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10884 MHz	-27.47 dBm	-14.47 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.07143 MHz	-61.30 dBm	-26.30 dB

Date: 22.MAY.2019 15:35:57

Lowest Band Edge / Full RB

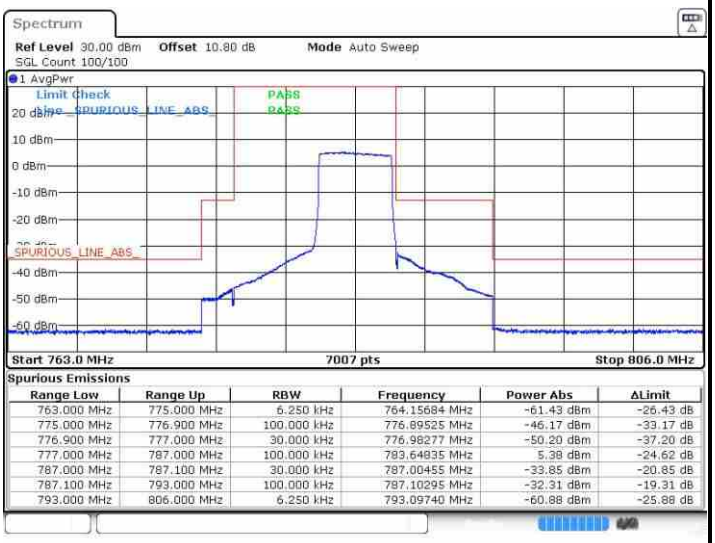


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.74326 MHz	-61.41 dBm	-26.41 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.88956 MHz	-28.40 dBm	-15.40 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99995 MHz	-30.97 dBm	-17.97 dB
777.000 MHz	787.000 MHz	100.000 kHz	781.56044 MHz	5.58 dBm	-24.42 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.04630 MHz	-46.88 dBm	-33.88 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.15599 MHz	-42.32 dBm	-29.32 dB
793.000 MHz	806.000 MHz	6.250 kHz	803.14935 MHz	-61.32 dBm	-26.32 dB

Date: 22.MAY.2019 15:21:00

Highest Band Edge / Full RB



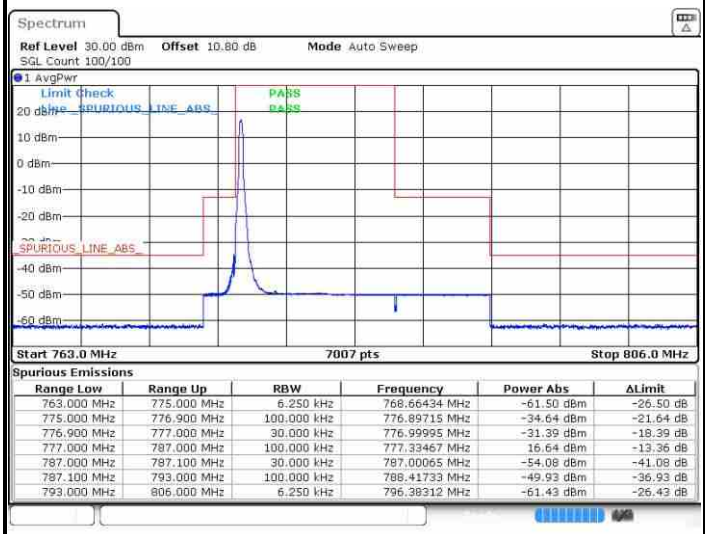
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	764.15684 MHz	-61.43 dBm	-26.43 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89525 MHz	-46.17 dBm	-33.17 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.98277 MHz	-50.20 dBm	-37.20 dB
777.000 MHz	787.000 MHz	100.000 kHz	783.64835 MHz	5.38 dBm	-24.62 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00455 MHz	-33.85 dBm	-20.85 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10295 MHz	-32.31 dBm	-19.31 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.09740 MHz	-60.88 dBm	-25.88 dB

Date: 22.MAY.2019 15:34:16

IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

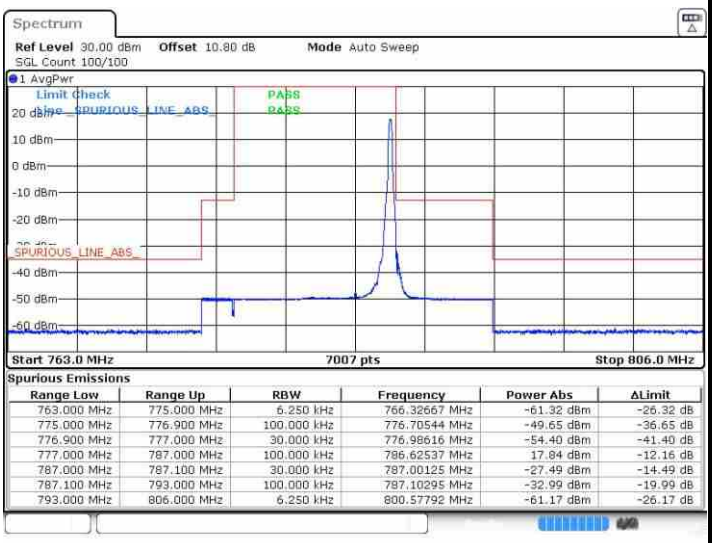


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.66434 MHz	-61.50 dBm	-26.50 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89715 MHz	-34.64 dBm	-21.64 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99995 MHz	-31.39 dBm	-18.39 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.33467 MHz	16.64 dBm	-13.36 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00065 MHz	-54.08 dBm	-41.08 dB
787.100 MHz	793.000 MHz	100.000 kHz	788.41733 MHz	-49.93 dBm	-36.93 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.38312 MHz	-61.43 dBm	-26.43 dB

Date: 22.MAY.2019 15:42:48

Highest Band Edge / 1 RB

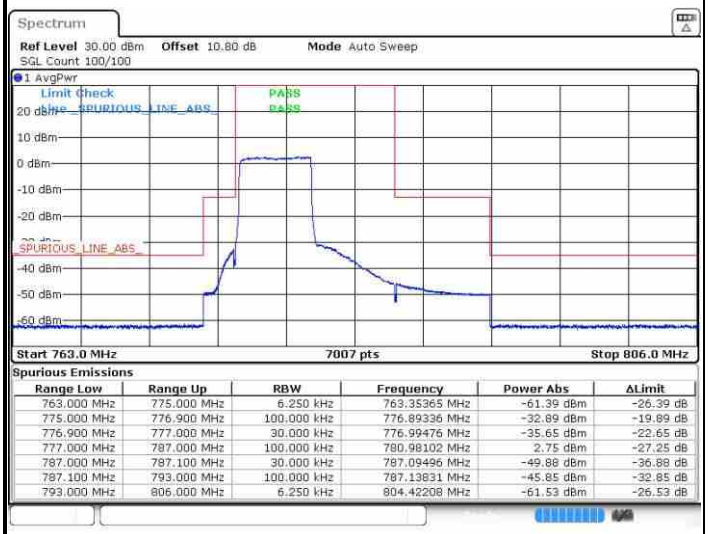


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.32667 MHz	-61.32 dBm	-26.32 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.70544 MHz	-49.65 dBm	-36.65 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.98616 MHz	-54.40 dBm	-41.40 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.62537 MHz	17.84 dBm	-12.16 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00125 MHz	-27.49 dBm	-14.49 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10295 MHz	-32.99 dBm	-19.99 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.57792 MHz	-61.17 dBm	-26.17 dB

Date: 22.MAY.2019 15:48:20

Lowest Band Edge / Full RB

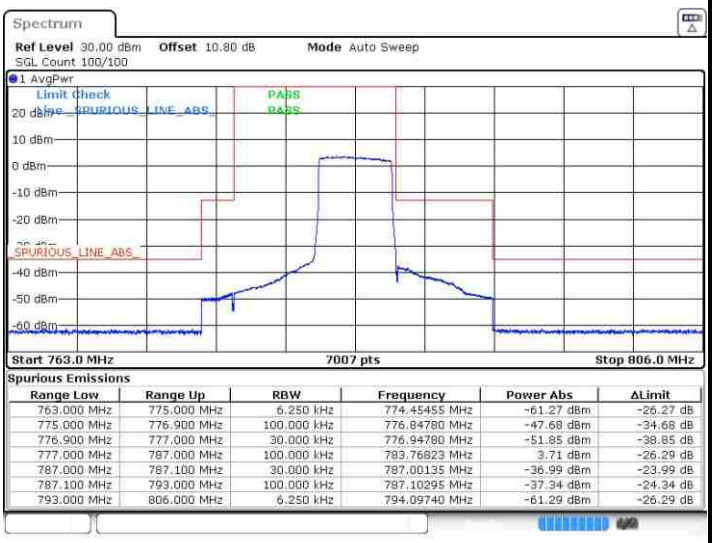


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	763.35365 MHz	-61.39 dBm	-26.39 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89336 MHz	-32.89 dBm	-19.89 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99476 MHz	-35.65 dBm	-22.65 dB
777.000 MHz	787.000 MHz	100.000 kHz	780.98102 MHz	2.75 dBm	-27.25 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.09496 MHz	-49.88 dBm	-36.88 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.13831 MHz	-45.85 dBm	-32.85 dB
793.000 MHz	806.000 MHz	6.250 kHz	804.42208 MHz	-61.53 dBm	-26.53 dB

Date: 22.MAY.2019 15:41:07

Highest Band Edge / Full RB



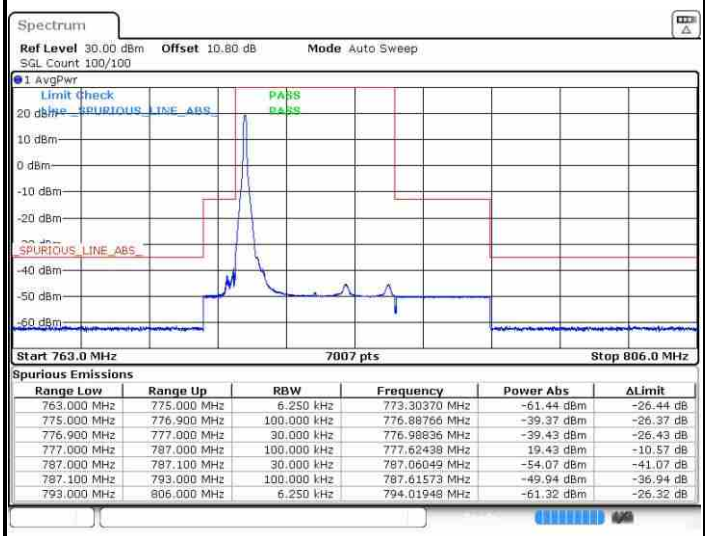
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.45455 MHz	-61.27 dBm	-26.27 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.84780 MHz	-47.68 dBm	-34.68 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.94780 MHz	-51.85 dBm	-38.85 dB
777.000 MHz	787.000 MHz	100.000 kHz	783.76823 MHz	3.71 dBm	-26.29 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00135 MHz	-36.99 dBm	-23.99 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10295 MHz	-37.34 dBm	-24.34 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.09740 MHz	-61.29 dBm	-26.29 dB

Date: 22.MAY.2019 15:46:38

IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

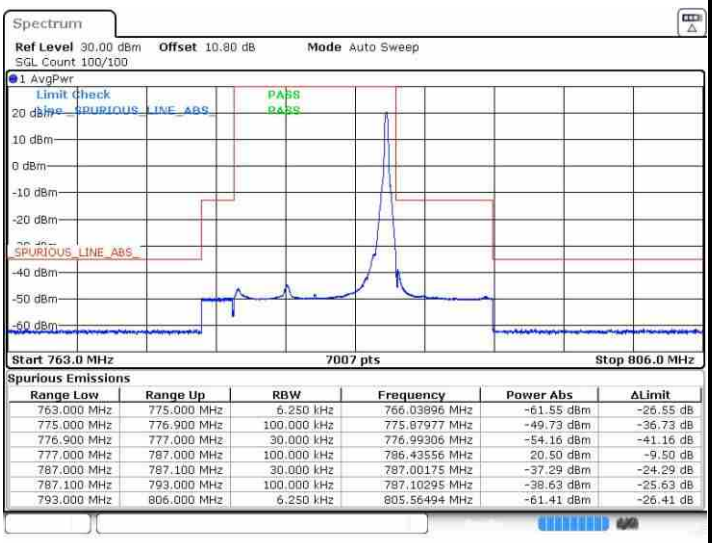


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.30370 MHz	-61.44 dBm	-26.44 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.88766 MHz	-39.37 dBm	-26.37 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.98836 MHz	-39.43 dBm	-26.43 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.62438 MHz	19.43 dBm	-10.57 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.06049 MHz	-54.07 dBm	-41.07 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.61573 MHz	-49.94 dBm	-36.94 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.01948 MHz	-61.32 dBm	-26.32 dB

Date: 22.MAY.2019 15:56:31

Highest Band Edge / 1 RB

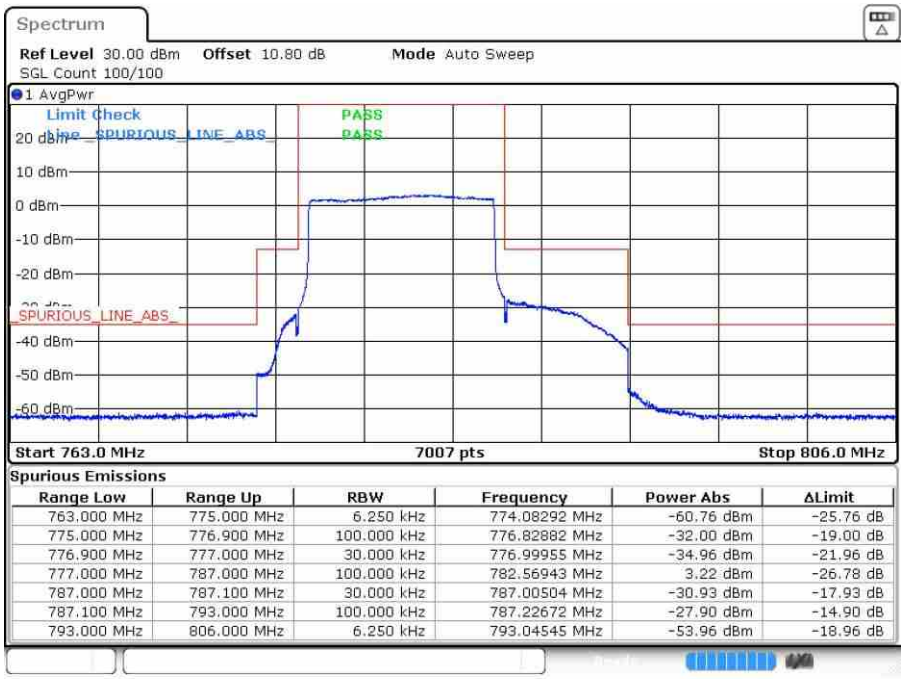


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.03896 MHz	-61.55 dBm	-26.55 dB
775.000 MHz	776.900 MHz	100.000 kHz	775.87977 MHz	-49.73 dBm	-36.73 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99306 MHz	-54.16 dBm	-41.16 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.43556 MHz	20.50 dBm	-9.50 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00175 MHz	-37.29 dBm	-24.29 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10295 MHz	-38.63 dBm	-25.63 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.56494 MHz	-61.41 dBm	-26.41 dB

Date: 22.MAY.2019 15:58:12

Band Edge / Full RB



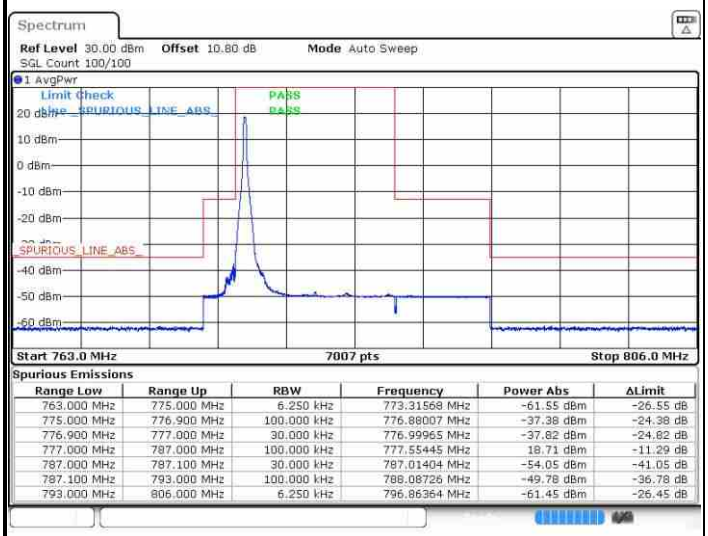
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.08292 MHz	-60.76 dBm	-25.76 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.82882 MHz	-32.00 dBm	-19.00 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99955 MHz	-34.96 dBm	-21.96 dB
777.000 MHz	787.000 MHz	100.000 kHz	782.56943 MHz	3.22 dBm	-26.78 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00504 MHz	-30.93 dBm	-17.93 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.22672 MHz	-27.90 dBm	-14.90 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-53.96 dBm	-18.96 dB

Date: 22.MAY.2019 15:51:29

IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

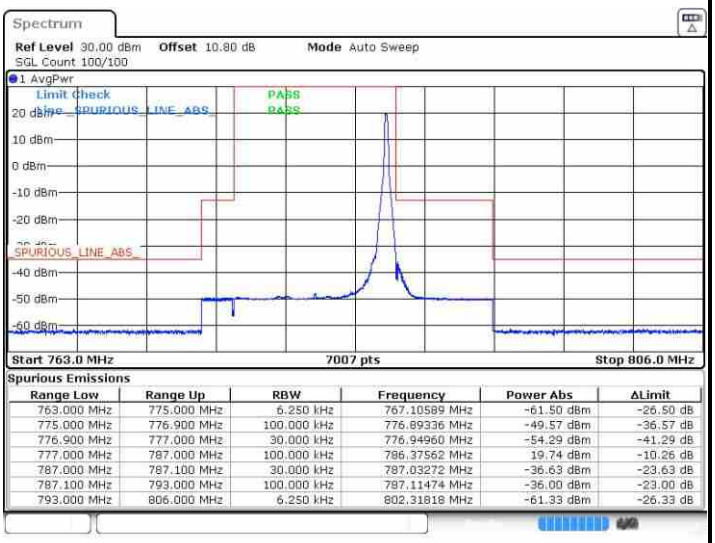


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.31568 MHz	-61.55 dBm	-26.55 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.88007 MHz	-37.38 dBm	-24.38 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99965 MHz	-37.82 dBm	-24.82 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.55445 MHz	18.71 dBm	-11.29 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.01404 MHz	-54.05 dBm	-41.05 dB
787.100 MHz	793.000 MHz	100.000 kHz	788.08726 MHz	-49.78 dBm	-36.78 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.86364 MHz	-61.45 dBm	-26.45 dB

Date: 22.MAY.2019 15:54:50

Highest Band Edge / 1 RB

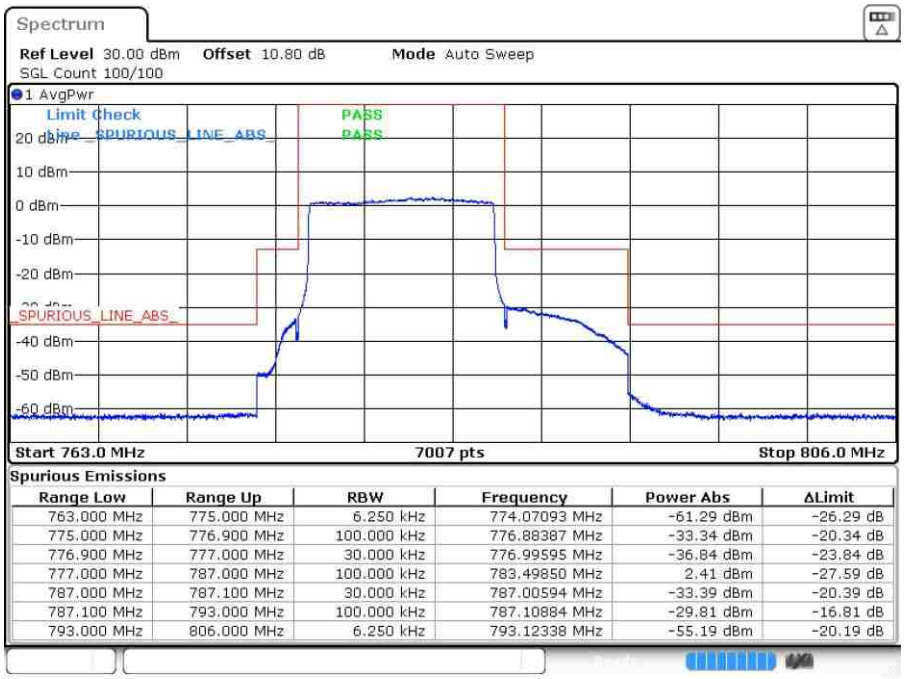


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	767.10589 MHz	-61.50 dBm	-26.50 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89336 MHz	-49.57 dBm	-36.57 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.94960 MHz	-54.29 dBm	-41.29 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.37562 MHz	19.74 dBm	-10.26 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.03272 MHz	-36.63 dBm	-23.63 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.11474 MHz	-36.00 dBm	-23.00 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.31818 MHz	-61.33 dBm	-26.33 dB

Date: 22.MAY.2019 15:59:52

Band Edge / Full RB



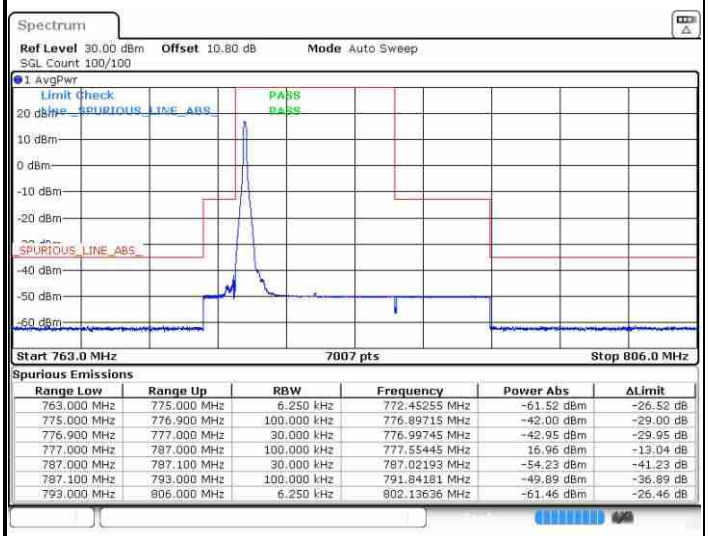
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.07093 MHz	-61.29 dBm	-26.29 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.88387 MHz	-33.34 dBm	-20.34 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99595 MHz	-36.84 dBm	-23.84 dB
777.000 MHz	787.000 MHz	100.000 kHz	783.49850 MHz	2.41 dBm	-27.59 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00594 MHz	-33.39 dBm	-20.39 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10884 MHz	-29.81 dBm	-16.81 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-55.19 dBm	-20.19 dB

Date: 22.MAY.2019 15:53:10

IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

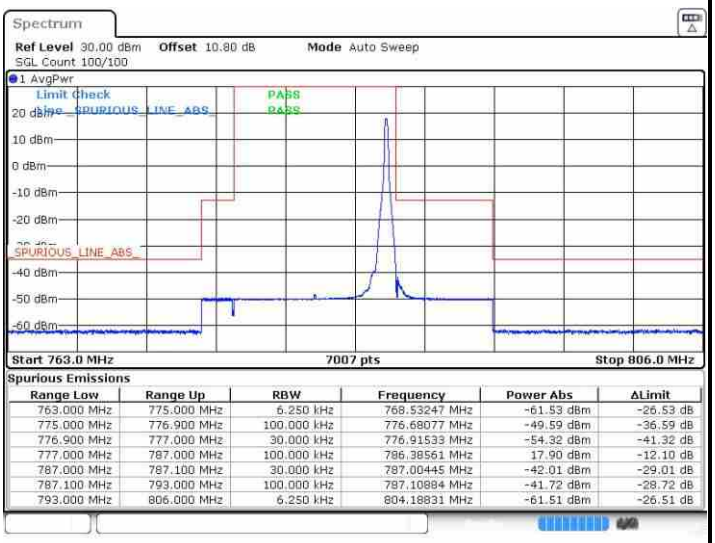


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	772.45255 MHz	-61.52 dBm	-26.52 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.89715 MHz	-42.00 dBm	-29.00 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99745 MHz	-42.95 dBm	-29.95 dB
777.000 MHz	787.000 MHz	100.000 kHz	777.55445 MHz	16.96 dBm	-13.04 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.02193 MHz	-54.23 dBm	-41.23 dB
787.100 MHz	793.000 MHz	100.000 kHz	791.84181 MHz	-49.89 dBm	-36.89 dB
793.000 MHz	806.000 MHz	6.250 kHz	802.13636 MHz	-61.46 dBm	-26.46 dB

Date: 22.MAY.2019 16:04:58

Highest Band Edge / 1 RB

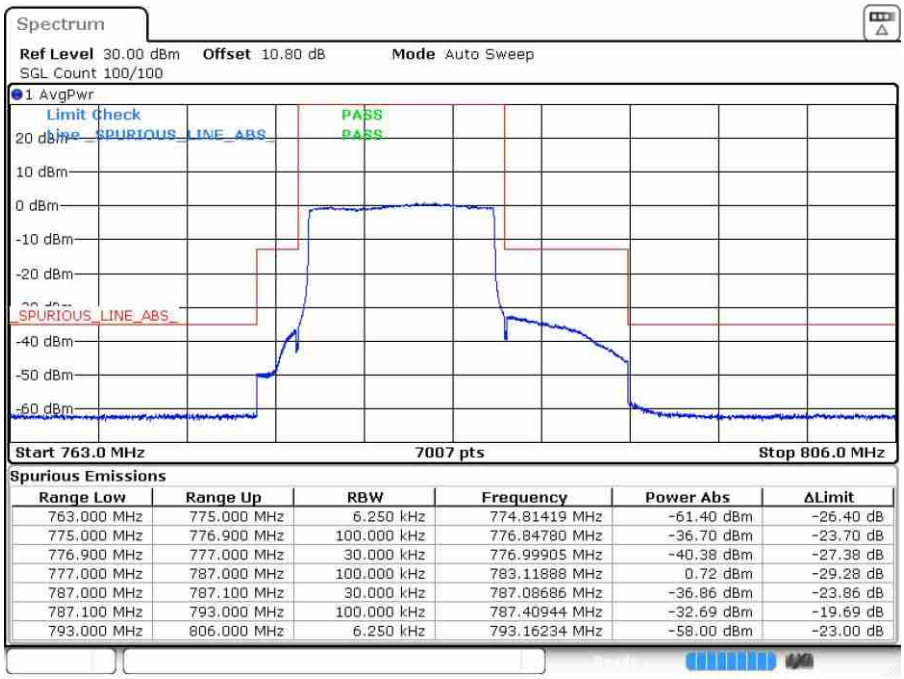


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.53247 MHz	-61.53 dBm	-26.53 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.68077 MHz	-49.59 dBm	-36.59 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.91533 MHz	-54.32 dBm	-41.32 dB
777.000 MHz	787.000 MHz	100.000 kHz	786.38561 MHz	17.90 dBm	-12.10 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.00445 MHz	-42.01 dBm	-29.01 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.10884 MHz	-41.72 dBm	-28.72 dB
793.000 MHz	806.000 MHz	6.250 kHz	804.18831 MHz	-61.51 dBm	-26.51 dB

Date: 22.MAY.2019 16:06:38

Band Edge / Full RB



Spurious Emissions

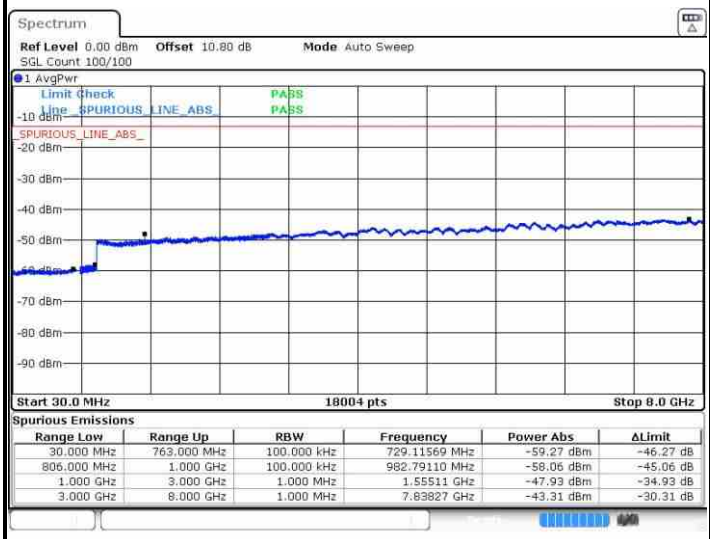
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.81419 MHz	-61.40 dBm	-26.40 dB
775.000 MHz	776.900 MHz	100.000 kHz	776.84780 MHz	-36.70 dBm	-23.70 dB
776.900 MHz	777.000 MHz	30.000 kHz	776.99905 MHz	-40.38 dBm	-27.38 dB
777.000 MHz	787.000 MHz	100.000 kHz	783.11888 MHz	0.72 dBm	-29.28 dB
787.000 MHz	787.100 MHz	30.000 kHz	787.08686 MHz	-36.86 dBm	-23.86 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.40944 MHz	-32.69 dBm	-19.69 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.16234 MHz	-58.00 dBm	-23.00 dB

Date: 22.MAY.2019 16:03:17

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

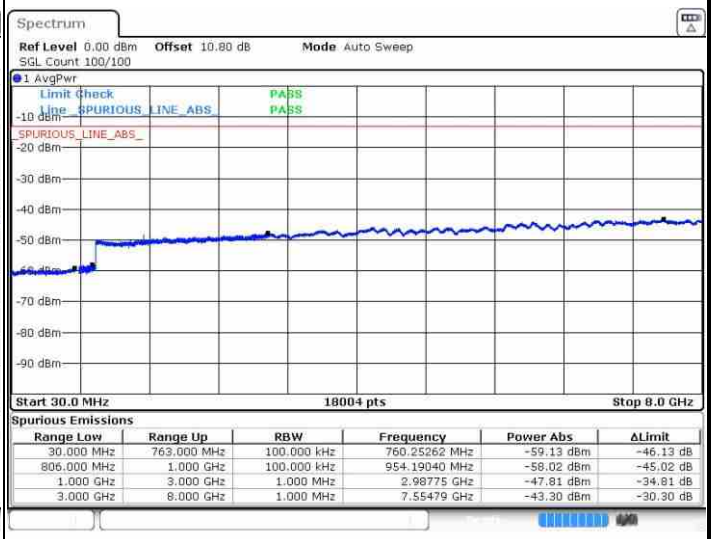


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	729.11569 MHz	-59.27 dBm	-46.27 dB
806.000 MHz	1.000 GHz	100.000 kHz	982.79110 MHz	-58.06 dBm	-45.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-47.93 dBm	-34.93 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.83827 GHz	-43.31 dBm	-30.31 dB

Date: 22.MAY.2019 15:27:17

Lowest Channel / 16QAM

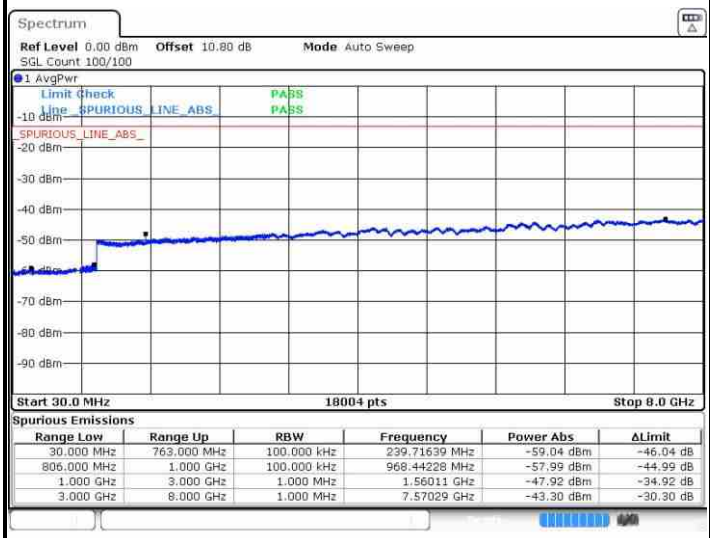


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	760.25262 MHz	-59.13 dBm	-46.13 dB
806.000 MHz	1.000 GHz	100.000 kHz	954.19040 MHz	-58.02 dBm	-45.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98775 GHz	-47.81 dBm	-34.81 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.55479 GHz	-43.30 dBm	-30.30 dB

Date: 22.MAY.2019 15:27:58

Middle Channel / QPSK

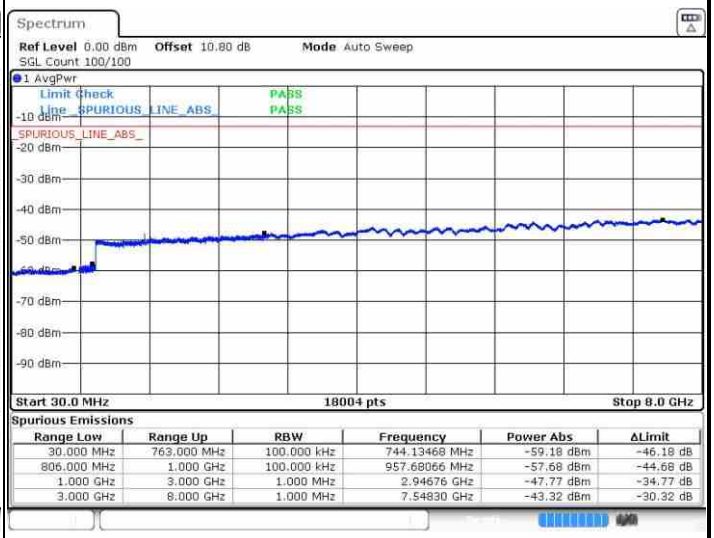


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	239.71639 MHz	-59.04 dBm	-46.04 dB
806.000 MHz	1.000 GHz	100.000 kHz	968.44228 MHz	-57.99 dBm	-44.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-47.92 dBm	-34.92 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.57029 GHz	-43.30 dBm	-30.30 dB

Date: 22.MAY.2019 15:29:19

Middle Channel / 16QAM



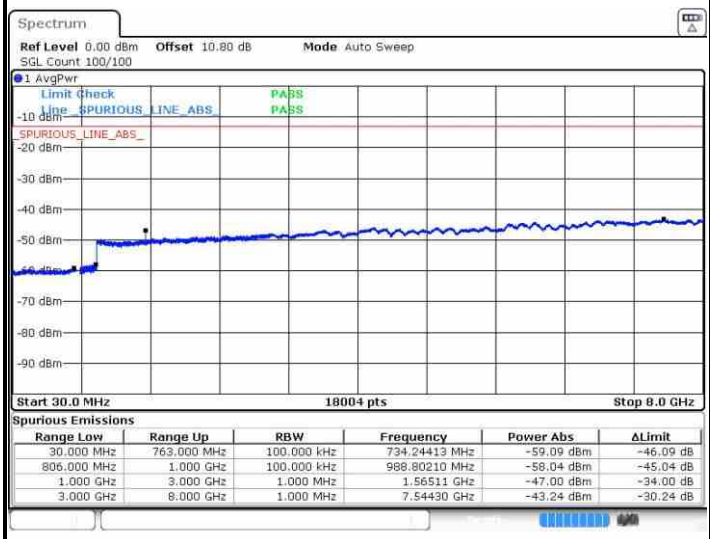
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	744.13468 MHz	-59.18 dBm	-46.18 dB
806.000 MHz	1.000 GHz	100.000 kHz	957.68066 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94676 GHz	-47.77 dBm	-34.77 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.54830 GHz	-43.32 dBm	-30.32 dB

Date: 22.MAY.2019 15:28:38

LTE Band 13 / 5MHz

Highest Channel / QPSK

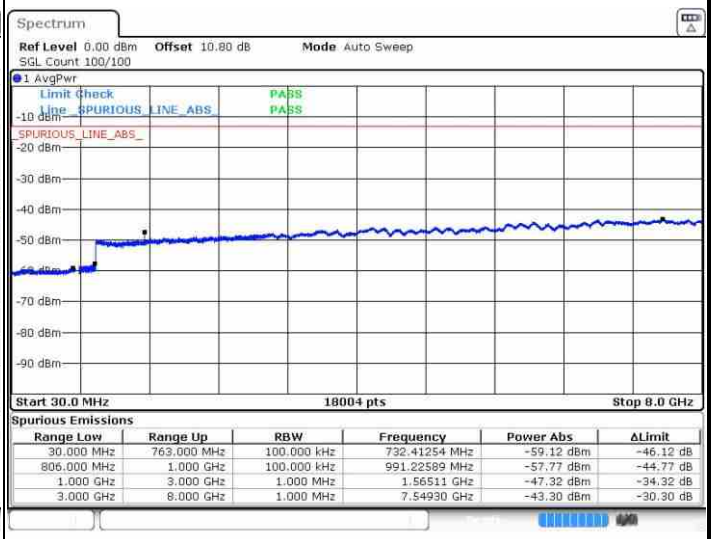


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	734.24413 MHz	-59.09 dBm	-46.09 dB
806.000 MHz	1.000 GHz	100.000 kHz	988.80210 MHz	-58.04 dBm	-45.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-47.00 dBm	-34.00 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.54430 GHz	-43.24 dBm	-30.24 dB

Date: 22.MAY.2019 15:38:21

Highest Channel / 16QAM



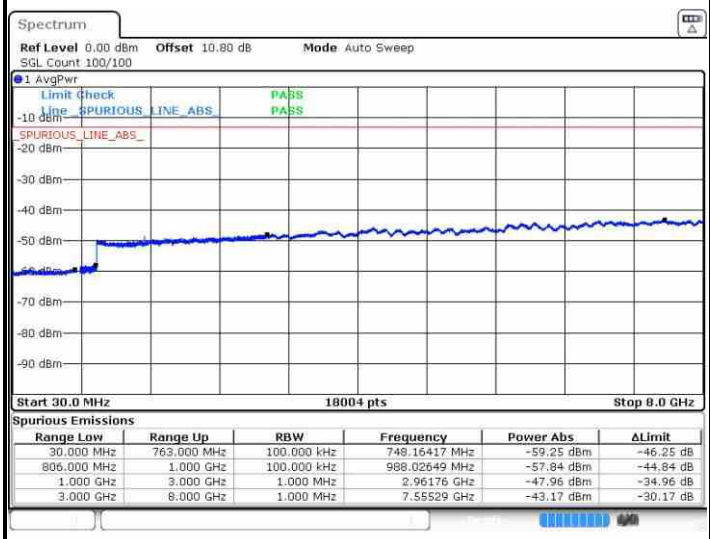
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	732.41254 MHz	-59.12 dBm	-46.12 dB
806.000 MHz	1.000 GHz	100.000 kHz	991.22589 MHz	-57.77 dBm	-44.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-47.32 dBm	-34.32 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.54930 GHz	-43.30 dBm	-30.30 dB

Date: 22.MAY.2019 15:39:01

LTE Band 13 / 10MHz

Middle Channel / QPSK

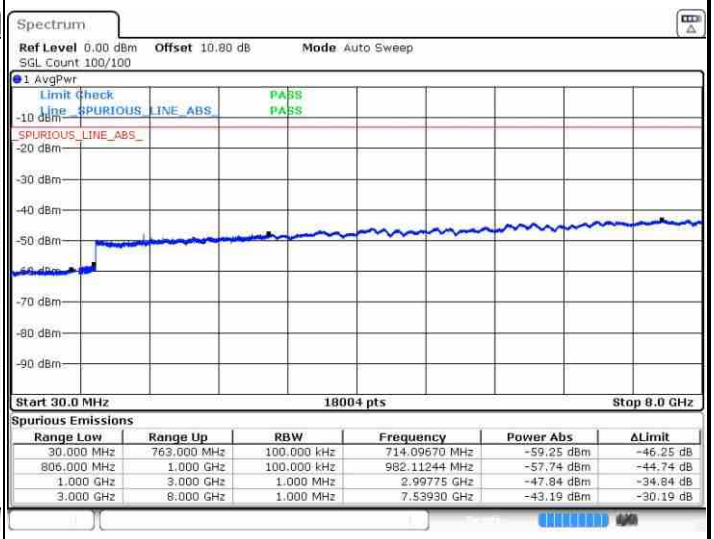


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	748.16417 MHz	-59.25 dBm	-46.25 dB
806.000 MHz	1.000 GHz	100.000 kHz	988.02649 MHz	-57.84 dBm	-44.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96176 GHz	-47.96 dBm	-34.96 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.55529 GHz	-43.17 dBm	-30.17 dB

Date: 22.MAY.2019 16:01:14

Middle Channel / 16QAM



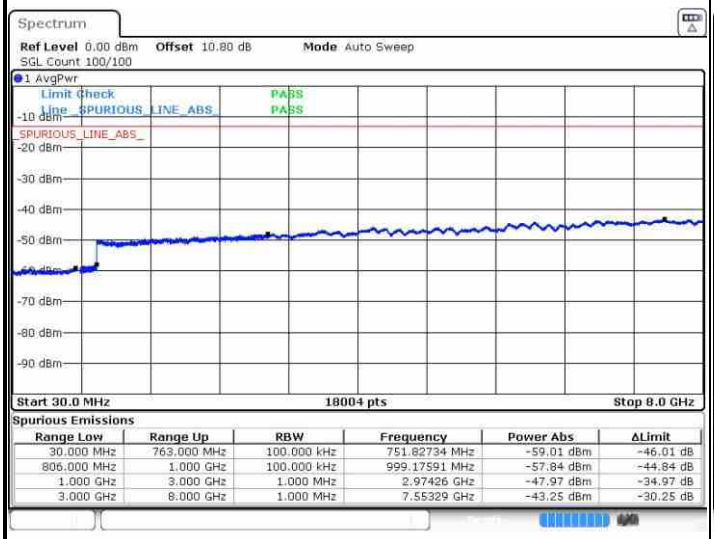
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	714.09670 MHz	-59.25 dBm	-46.25 dB
806.000 MHz	1.000 GHz	100.000 kHz	982.11244 MHz	-57.74 dBm	-44.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99775 GHz	-47.84 dBm	-34.84 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.53930 GHz	-43.19 dBm	-30.19 dB

Date: 22.MAY.2019 16:00:33

LTE Band 13 / 5MHz

Lowest Channel / 64QAM

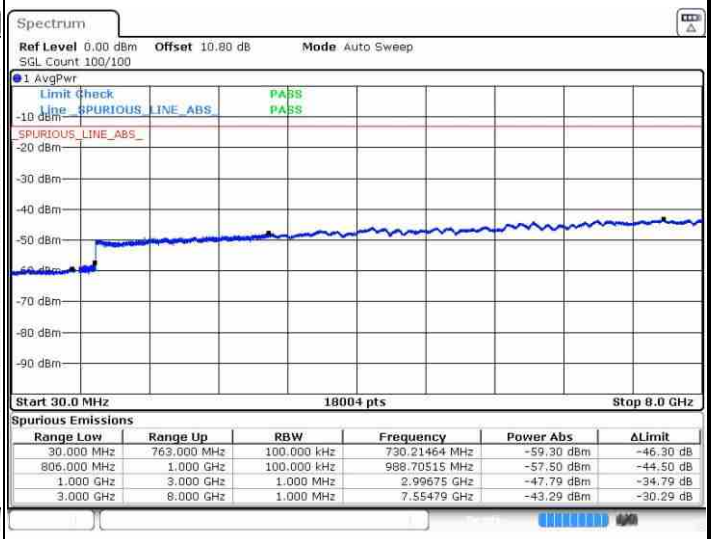


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	751.82734 MHz	-59.01 dBm	-46.01 dB
806.000 MHz	1.000 GHz	100.000 kHz	999.17591 MHz	-57.84 dBm	-44.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97426 GHz	-47.97 dBm	-34.97 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.55329 GHz	-43.25 dBm	-30.25 dB

Date: 22.MAY.2019 15:43:30

Middle Channel / 64QAM

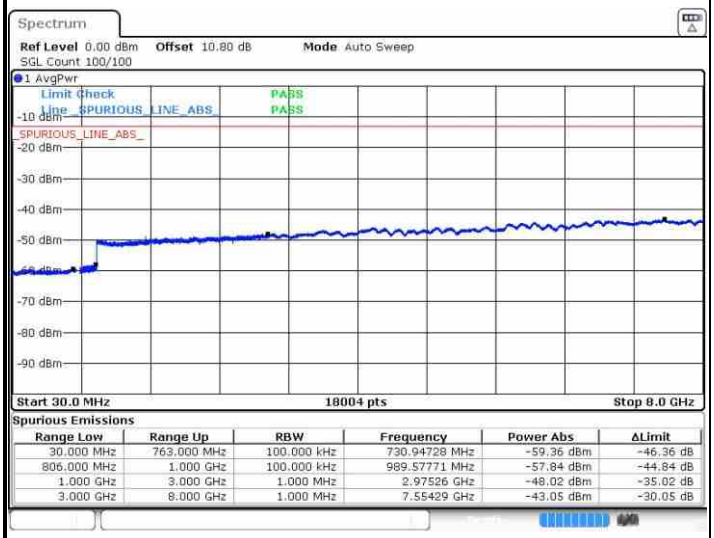


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	730.21464 MHz	-59.30 dBm	-46.30 dB
806.000 MHz	1.000 GHz	100.000 kHz	988.70515 MHz	-57.50 dBm	-44.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99675 GHz	-47.79 dBm	-34.79 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.55479 GHz	-43.29 dBm	-30.29 dB

Date: 22.MAY.2019 15:44:10

Highest Channel / 64QAM

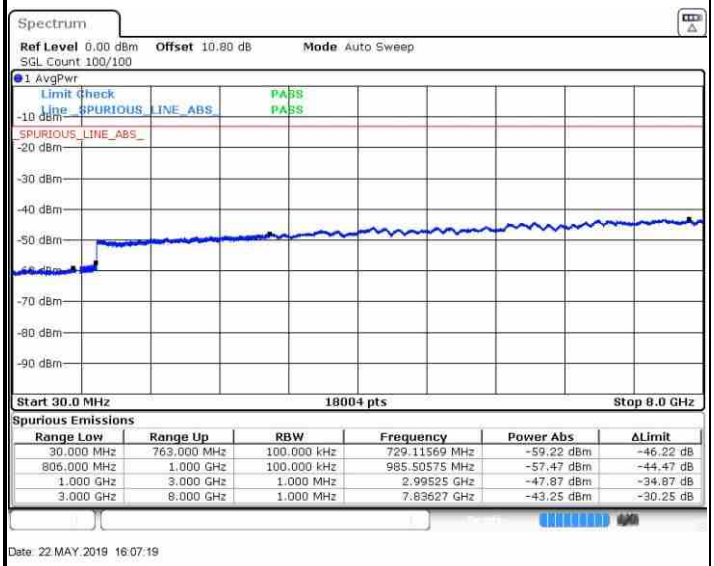


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	730.94728 MHz	-59.36 dBm	-46.36 dB
806.000 MHz	1.000 GHz	100.000 kHz	989.57771 MHz	-57.84 dBm	-44.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97526 GHz	-48.02 dBm	-35.02 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.55429 GHz	-43.05 dBm	-30.05 dB

Date: 22.MAY.2019 15:49:01

LTE Band 13 / 10MHz	
Middle Channel / 64QAM	



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	729.11569 MHz	-59.22 dBm	-46.22 dB
806.000 MHz	1.000 GHz	100.000 kHz	985.50575 MHz	-57.47 dBm	-44.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99525 GHz	-47.87 dBm	-34.87 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.83627 GHz	-43.25 dBm	-30.25 dB

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0064	
30	Normal Voltage	0.0077	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0098	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0068	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0077	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0077	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.65 V.；Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset (△f) (Hz)	Result
50	Normal Voltage	-2.7	PASS
40	Normal Voltage	5	
30	Normal Voltage	6	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	7.7	
0	Normal Voltage	0	
-10	Normal Voltage	5.3	
-20	Normal Voltage	5.6	
-30	Normal Voltage	1.3	
20	Maximum Voltage	6	
20	Normal Voltage	0	
20	Battery End Point	6	

|MAX(△f)| = 7.7Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(△f)|	777.145992	≧ 777 MHz	PASS
f_H + |MAX(△f)|	786.859008	≦ 787 MHz	

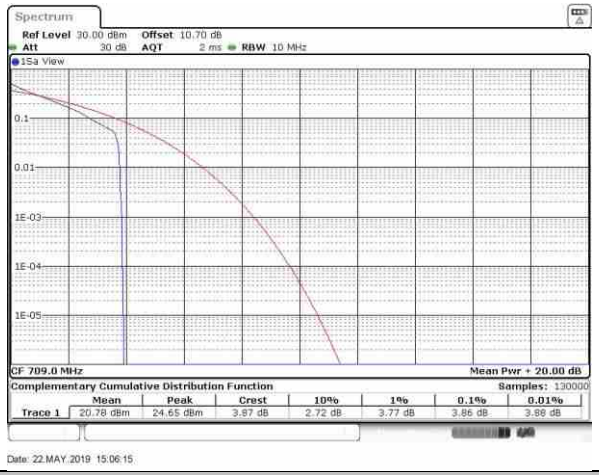
LTE Band 17

Peak-to-Average Ratio

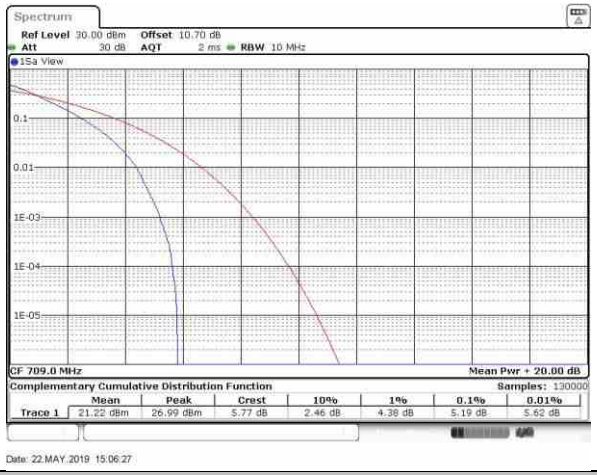
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	5.19	4.35	6.14	PASS
Middle CH	3.83	5.19	4.49	6.03	
Highest CH	3.88	5.04	4.23	6.03	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	6.72	-	-	PASS
Middle CH	5.36	6.61	-	-	
Highest CH	5.59	6.58	-	-	

LTE Band 17 / 10MHz / QPSK

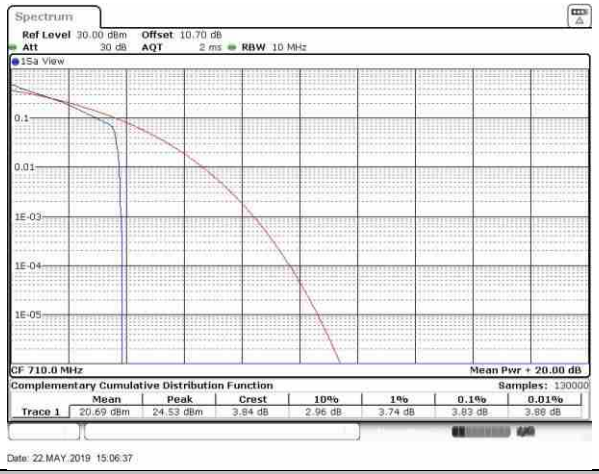
Lowest Channel / 1RB



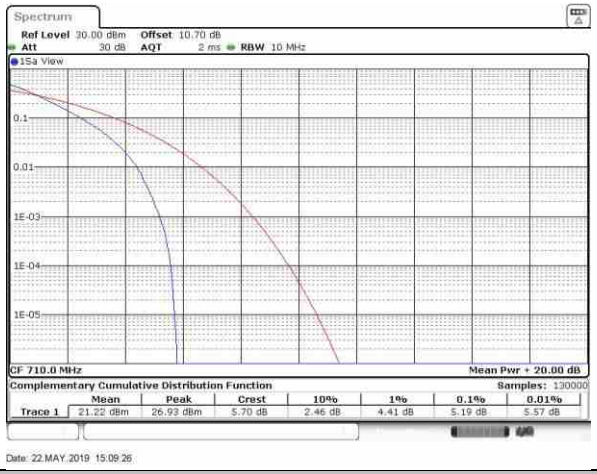
Lowest Channel / Full RB



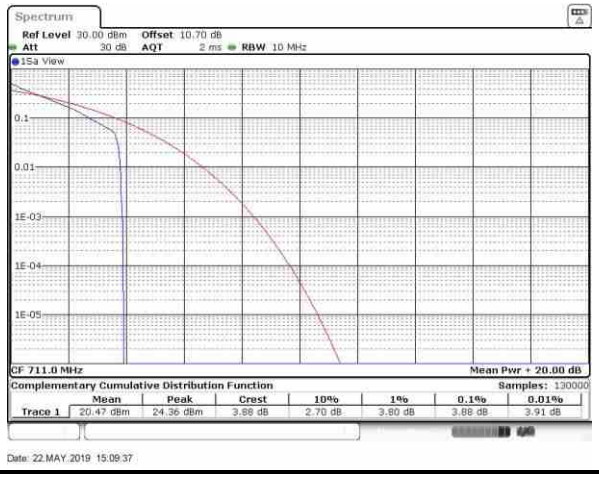
Middle Channel / 1RB



Middle Channel / Full RB



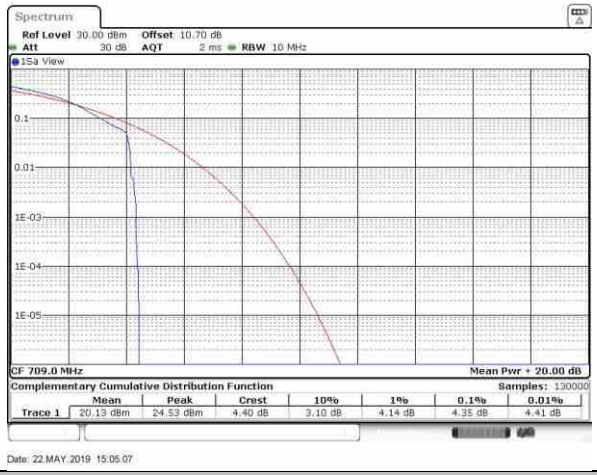
Highest Channel / 1RB



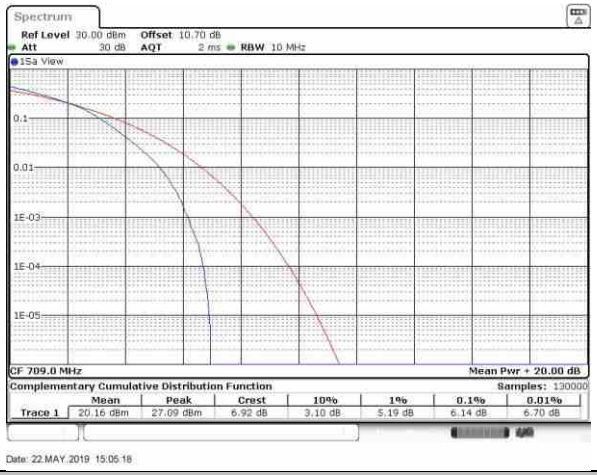
Highest Channel / Full RB

LTE Band 17 / 10MHz / 16QAM

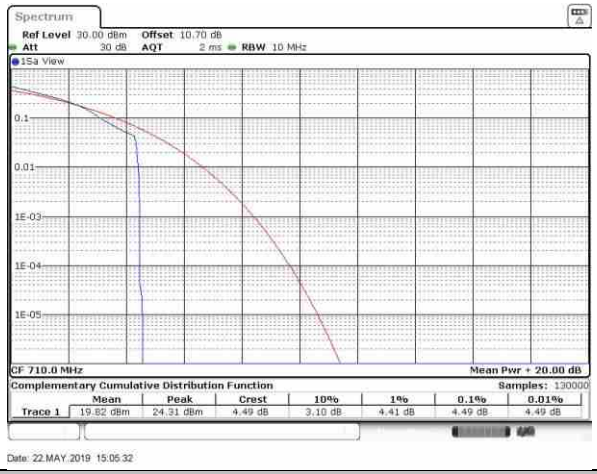
Lowest Channel / 1RB



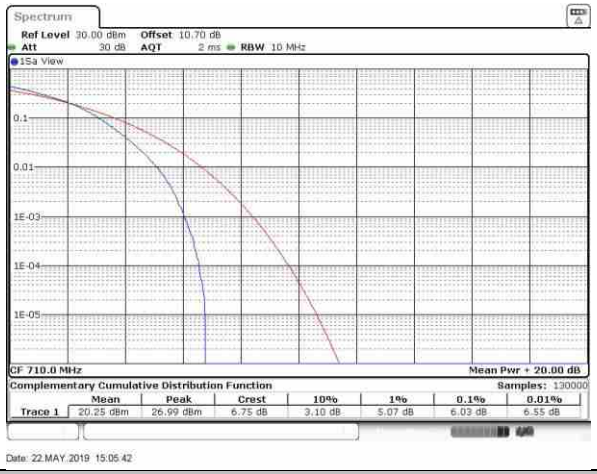
Lowest Channel / Full RB



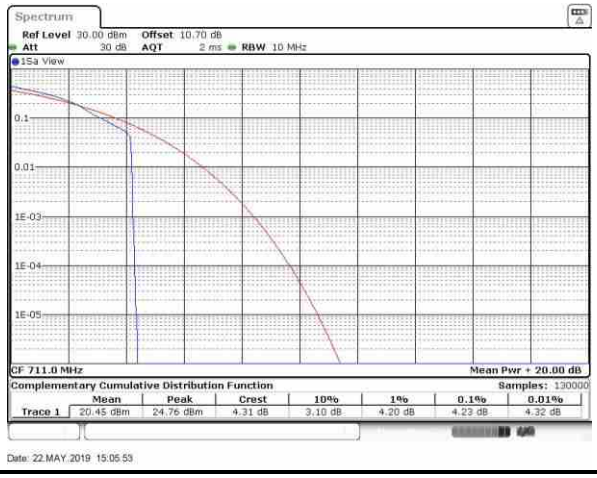
Middle Channel / 1RB



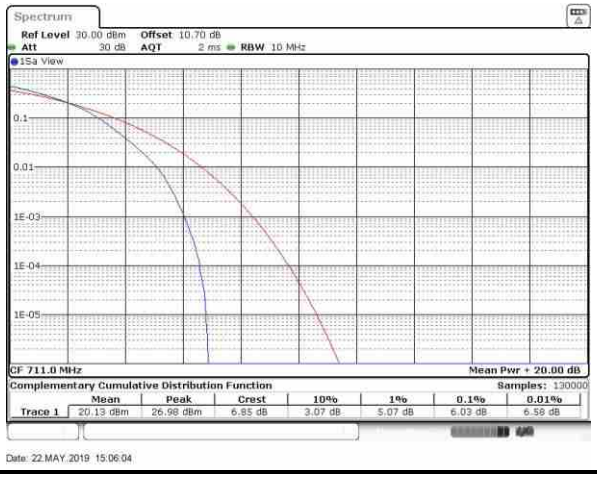
Middle Channel / Full RB



Highest Channel / 1RB

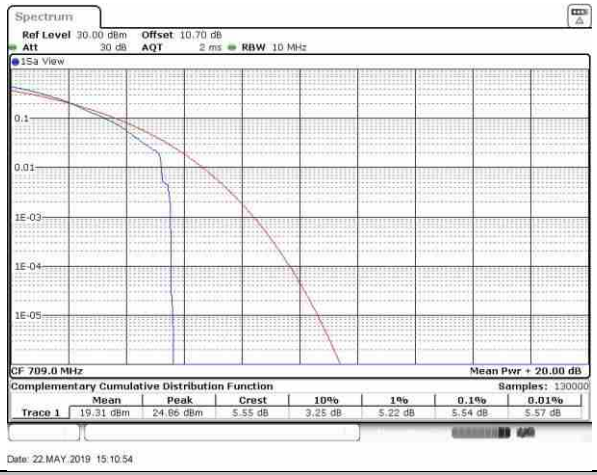


Highest Channel / Full RB

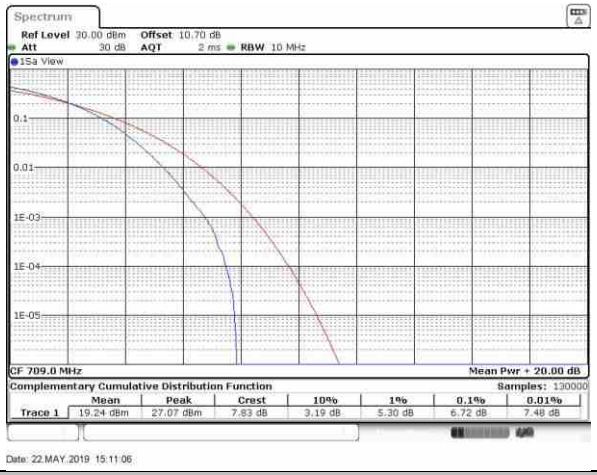


LTE Band 17 / 10MHz / 64QAM

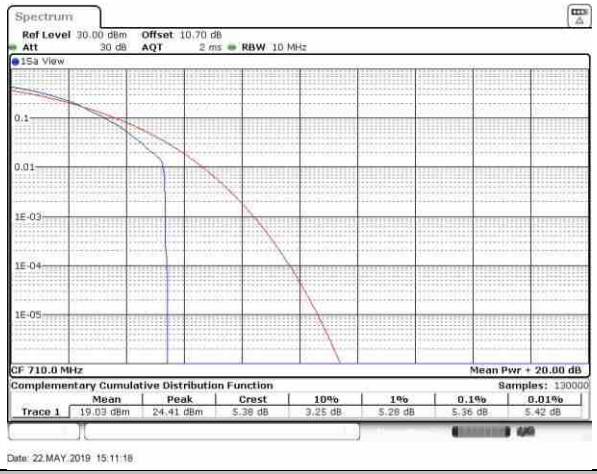
Lowest Channel / 1RB



Lowest Channel / Full RB

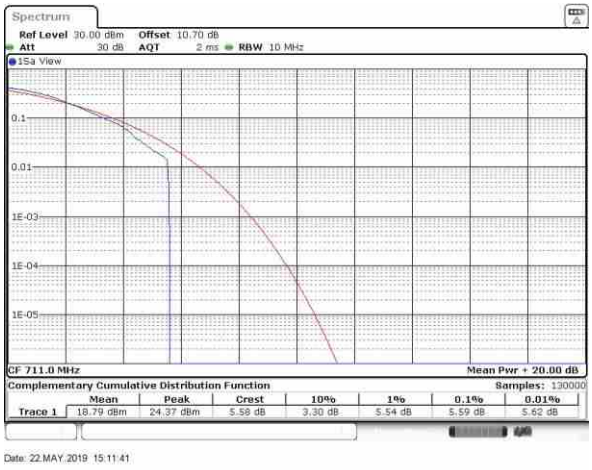


Middle Channel / 1RB



Middle Channel / Full RB

Highest Channel / 1RB



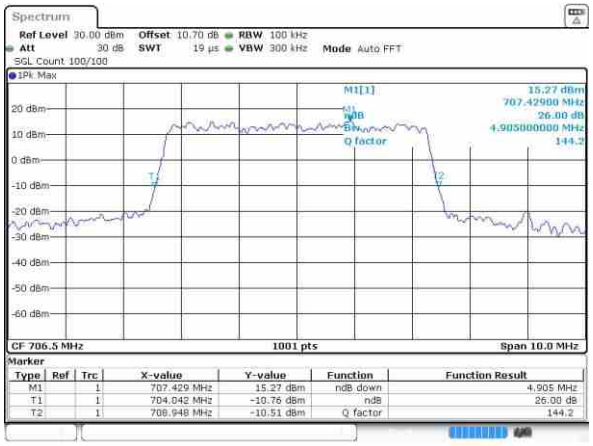
Highest Channel / Full RB

26dB Bandwidth

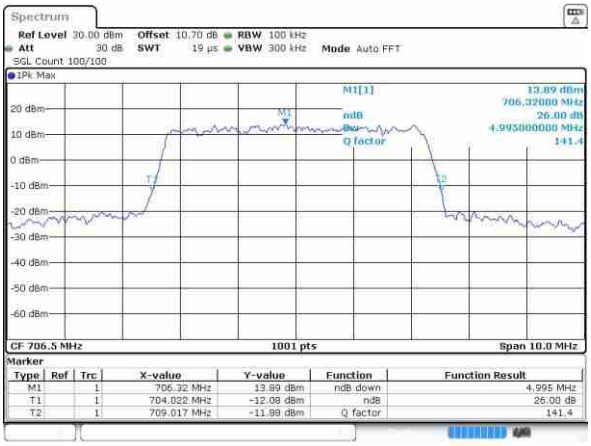
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.91	5.00	9.75	9.71	-	-	-	-
Middle CH	-	-	-	-	4.92	4.91	9.83	9.81	-	-	-	-
Highest CH	-	-	-	-	4.97	4.84	9.89	9.73	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.92	-	9.95	-	-	-	-	-
Middle CH	-	-	-	-	4.84	-	9.83	-	-	-	-	-
Highest CH	-	-	-	-	4.87	-	9.81	-	-	-	-	-

LTE Band 17

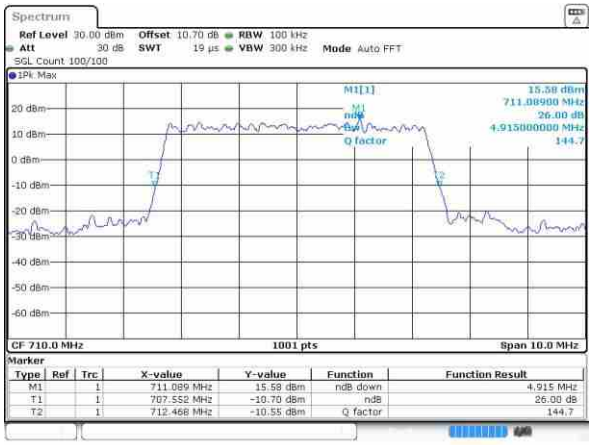
Lowest Channel / 5MHz / QPSK



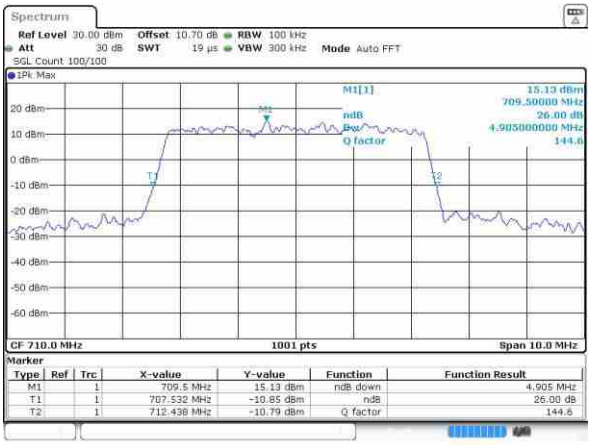
Lowest Channel / 5MHz / 16QAM



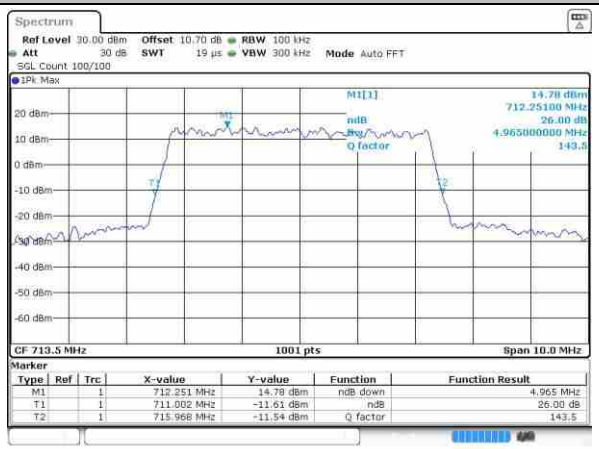
Middle Channel / 5MHz / QPSK



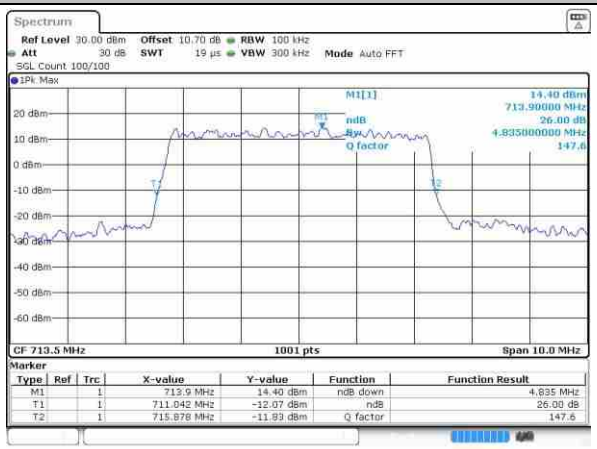
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

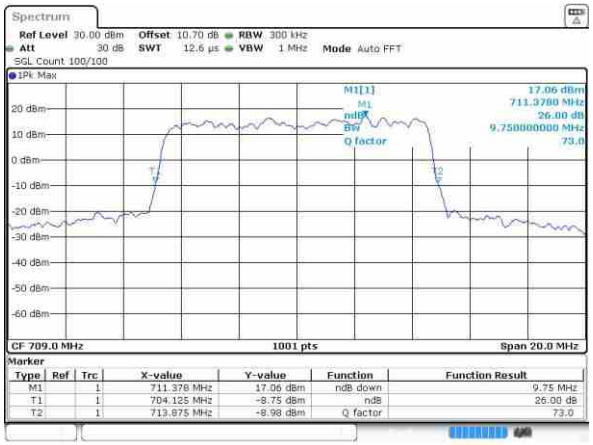


Highest Channel / 5MHz / 16QAM

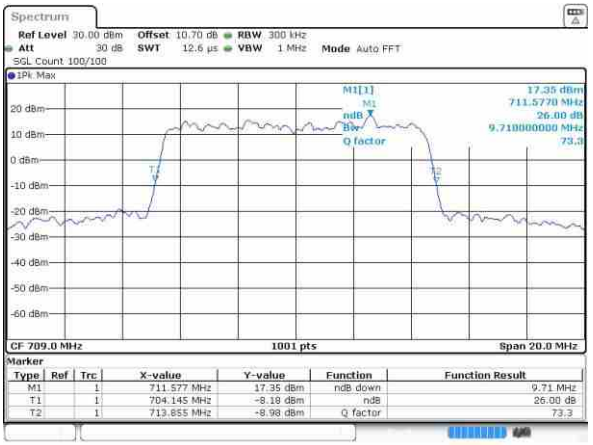


LTE Band 17

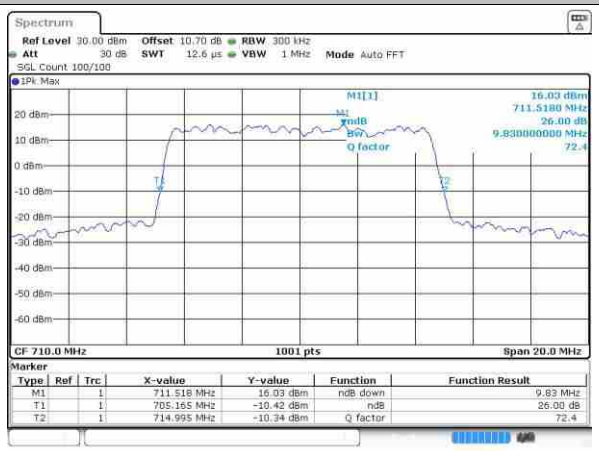
Lowest Channel / 10MHz / QPSK



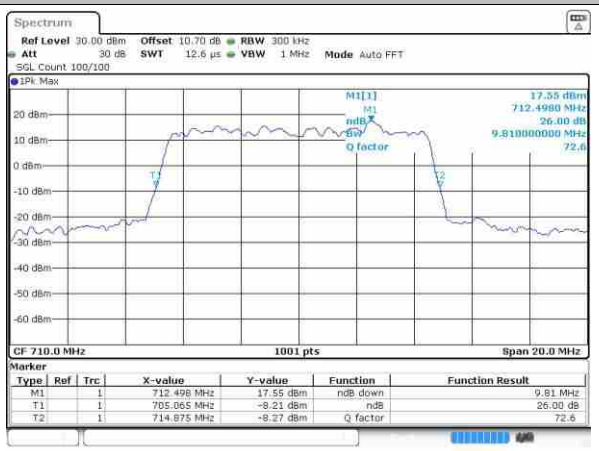
Lowest Channel / 10MHz / 16QAM



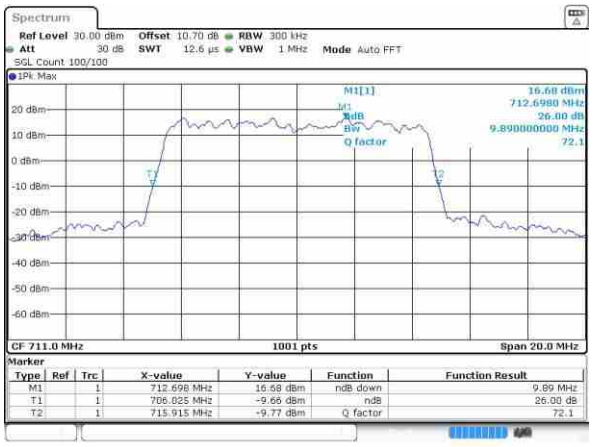
Middle Channel / 10MHz / QPSK



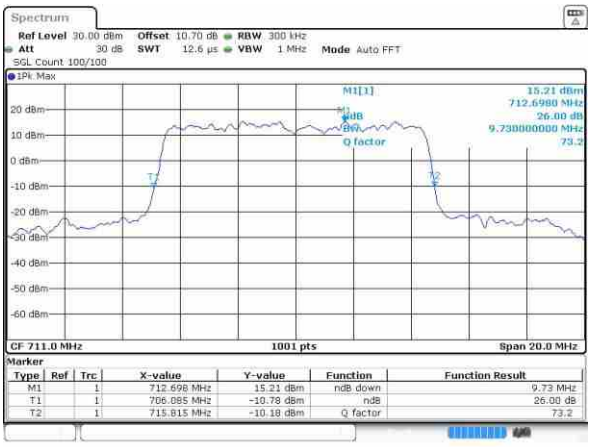
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

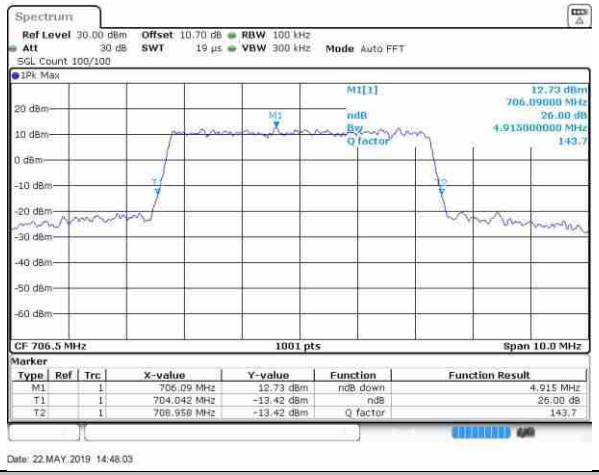


Highest Channel / 10MHz / 16QAM

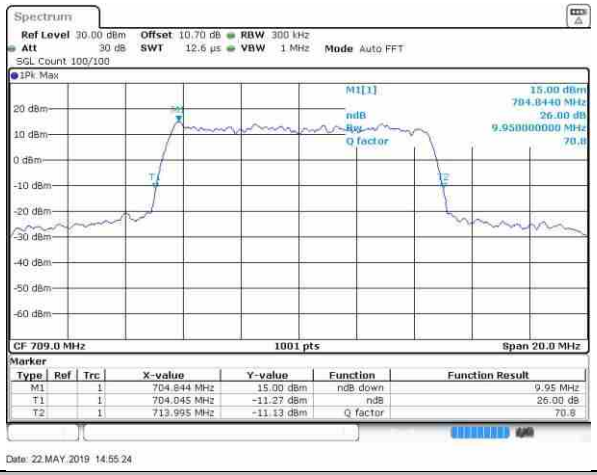


LTE Band 17

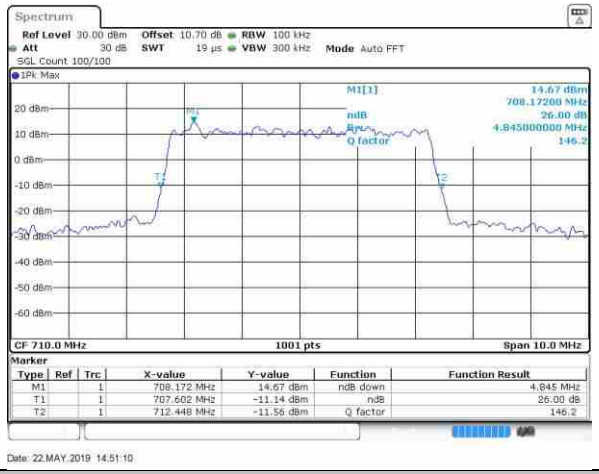
Lowest Channel / 5MHz / 64QAM



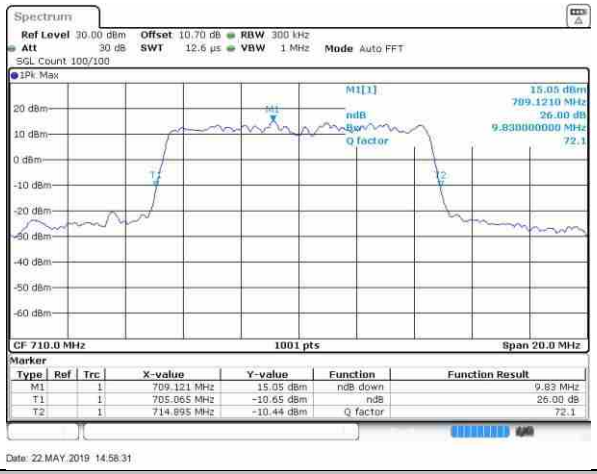
Lowest Channel / 10MHz / 64QAM



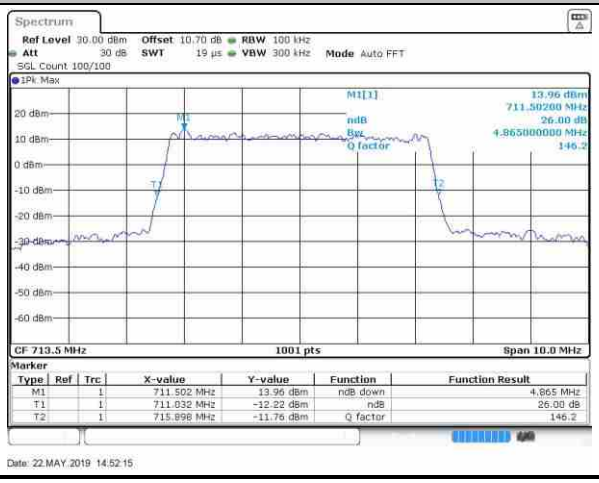
Middle Channel / 5MHz / 64QAM



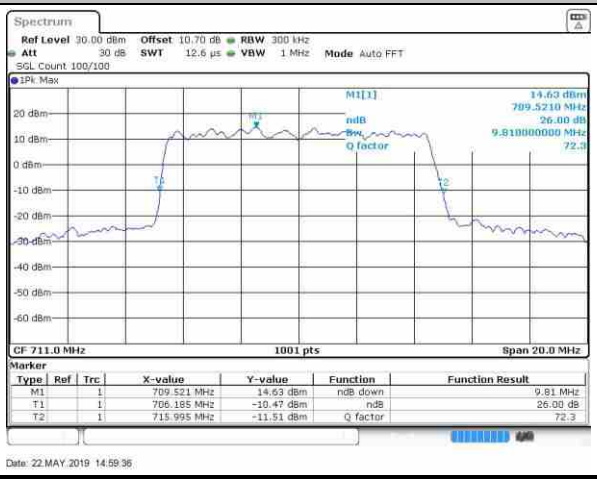
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

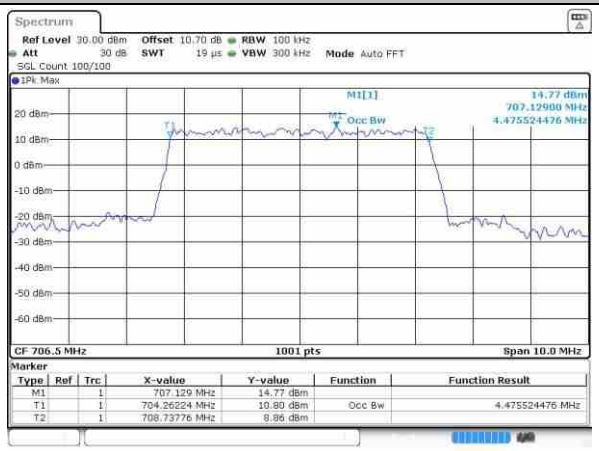


Occupied Bandwidth

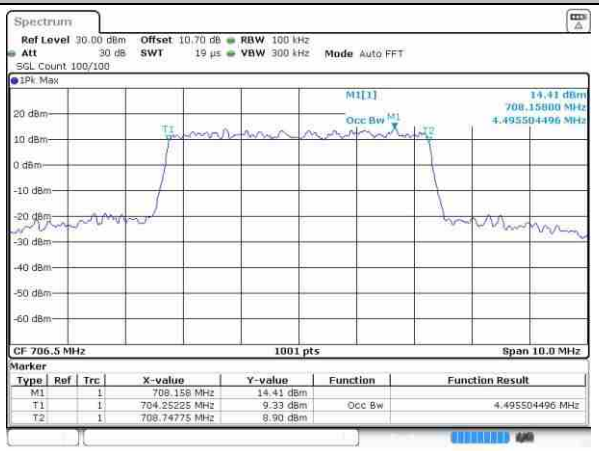
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.50	9.05	8.99	-	-	-	-
Middle CH	-	-	-	-	4.47	4.50	9.01	8.97	-	-	-	-
Highest CH	-	-	-	-	4.48	4.50	8.97	8.99	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.01	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.53	-	9.01	-	-	-	-	-

LTE Band 17

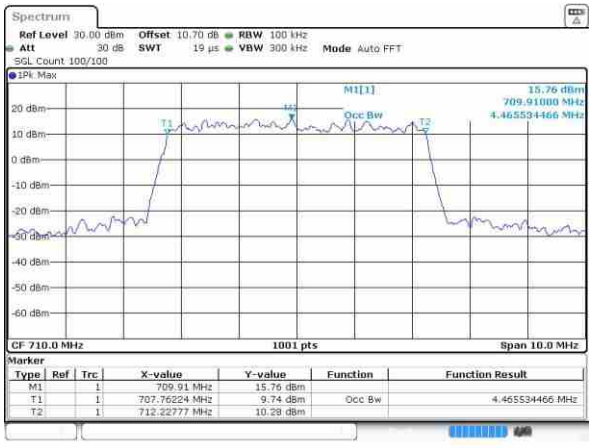
Lowest Channel / 5MHz / QPSK



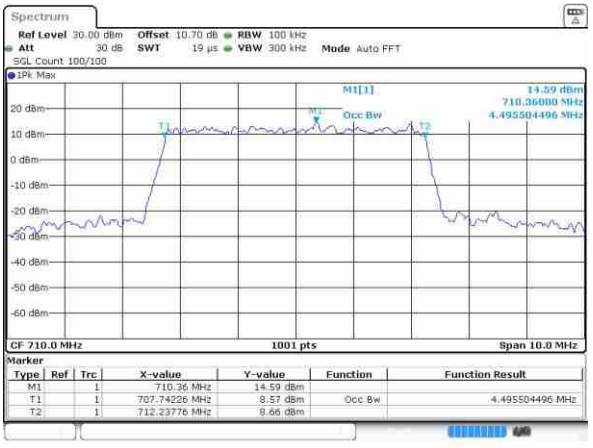
Lowest Channel / 5MHz / 16QAM



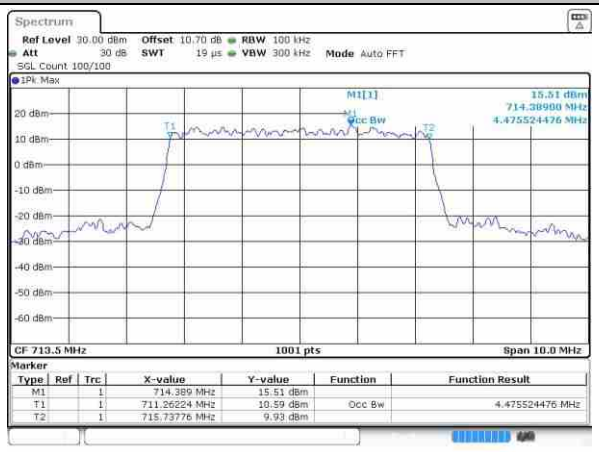
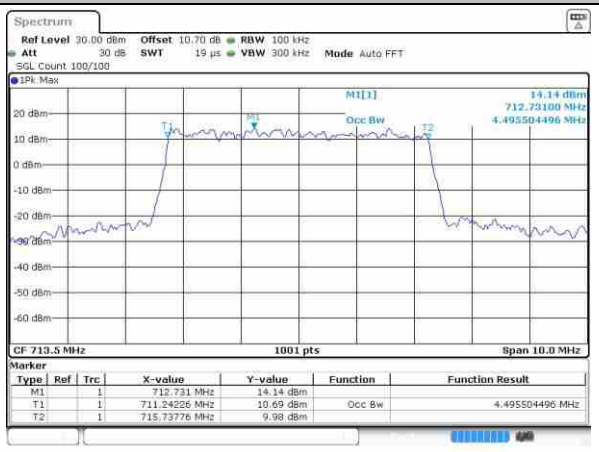
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM