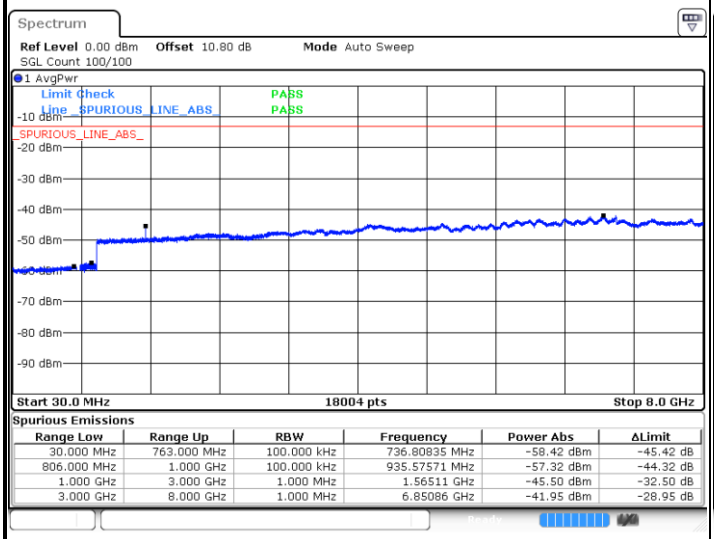
LTE Band 13 / 5MHz

Highest Channel / QPSK

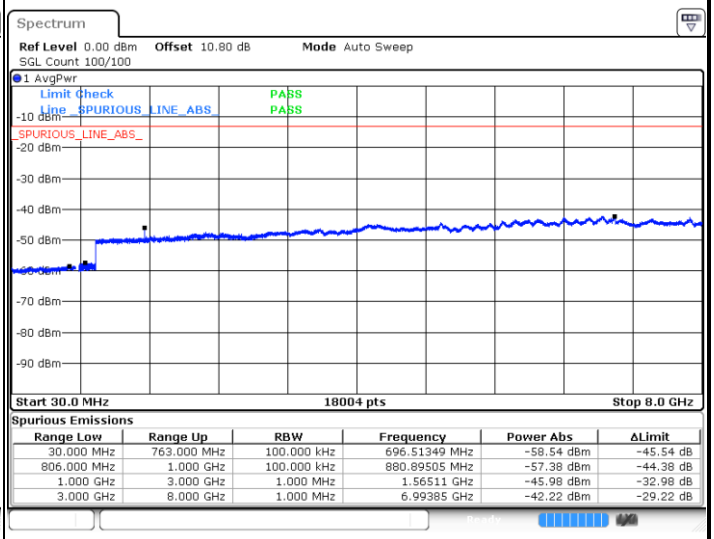


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	736.80835 MHz	-58.42 dBm	-45.42 dB
806.000 MHz	1.000 GHz	100.000 kHz	935.57571 MHz	-57.32 dBm	-44.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-45.50 dBm	-32.50 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.85086 GHz	-41.95 dBm	-28.95 dB

Date: 3.AUG.2017 20:06:57

Highest Channel / 16QAM



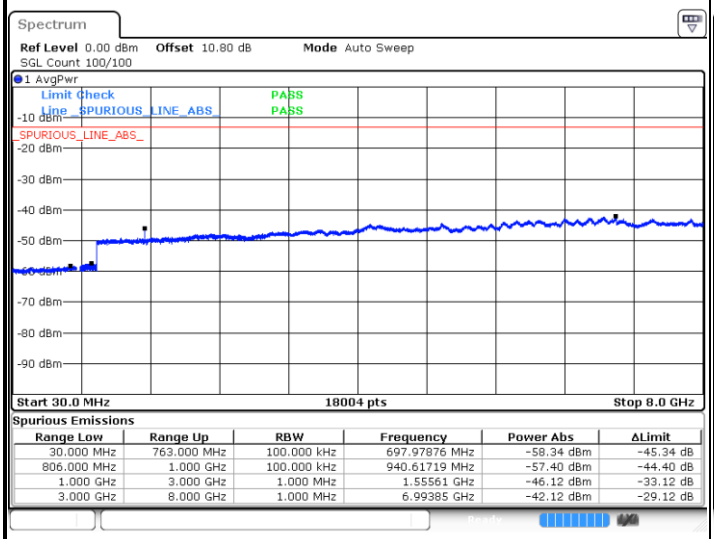
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	696.51349 MHz	-58.54 dBm	-45.54 dB
806.000 MHz	1.000 GHz	100.000 kHz	880.89505 MHz	-57.38 dBm	-44.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-45.98 dBm	-32.98 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99385 GHz	-42.22 dBm	-29.22 dB

Date: 3.AUG.2017 20:07:51

LTE Band 13 / 10MHz

Middle Channel / QPSK

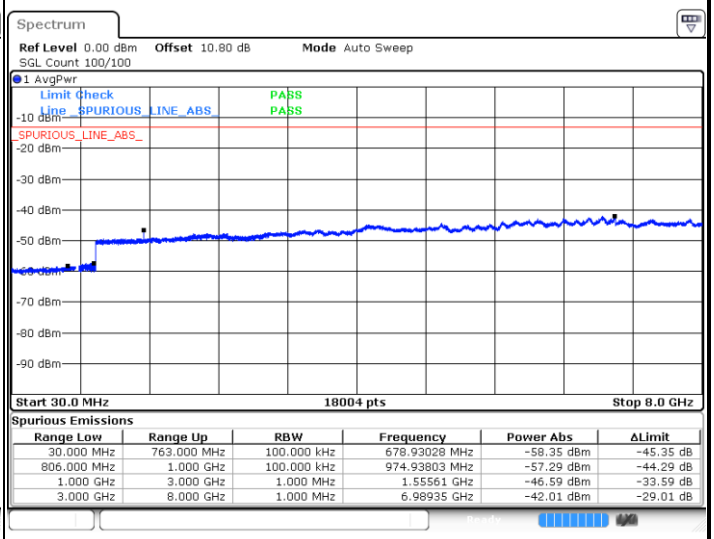


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	697.97876 MHz	-58.34 dBm	-45.34 dB
806.000 MHz	1.000 GHz	100.000 kHz	940.61719 MHz	-57.40 dBm	-44.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-46.12 dBm	-33.12 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99385 GHz	-42.12 dBm	-29.12 dB

Date: 3.AUG.2017 20:20:11

Middle Channel / 16QAM



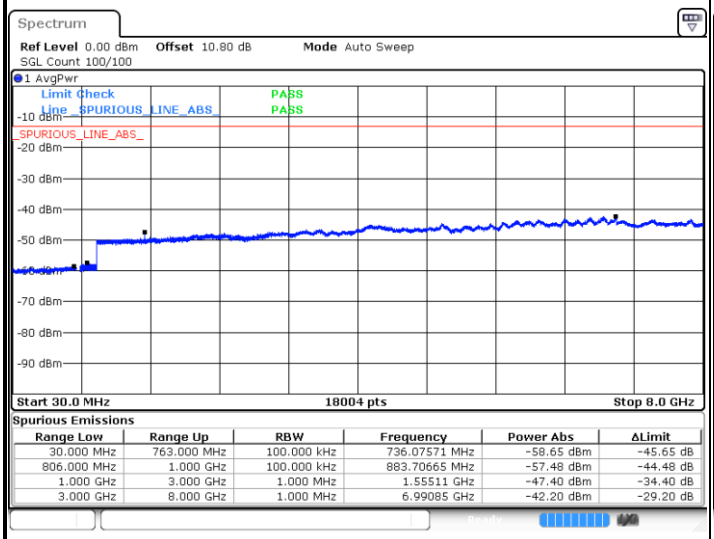
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	678.93028 MHz	-58.35 dBm	-45.35 dB
806.000 MHz	1.000 GHz	100.000 kHz	974.93803 MHz	-57.29 dBm	-44.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-46.59 dBm	-33.59 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98935 GHz	-42.01 dBm	-29.01 dB

Date: 3.AUG.2017 20:19:17

LTE Band 13 / 5MHz

Lowest Channel / 64QAM

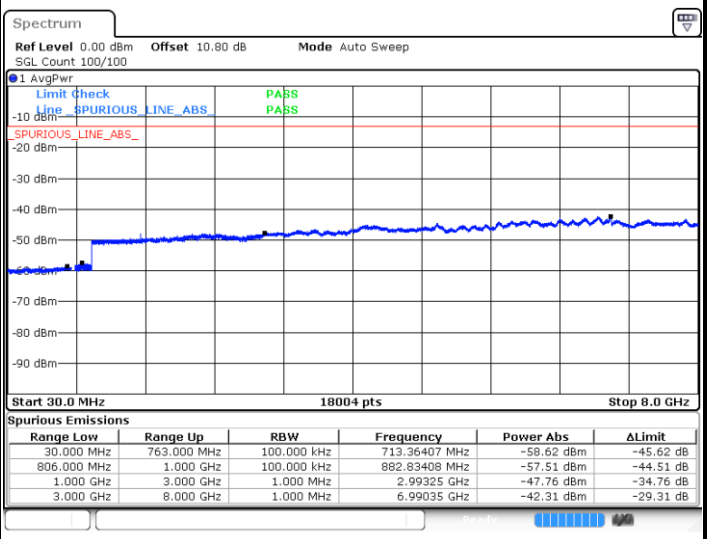


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	736.07571 MHz	-58.65 dBm	-45.65 dB
806.000 MHz	1.000 GHz	100.000 kHz	883.70665 MHz	-57.48 dBm	-44.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-47.40 dBm	-34.40 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99085 GHz	-42.20 dBm	-29.20 dB

Date: 11.OCT.2017 10:30:16

Middle Channel / 64QAM

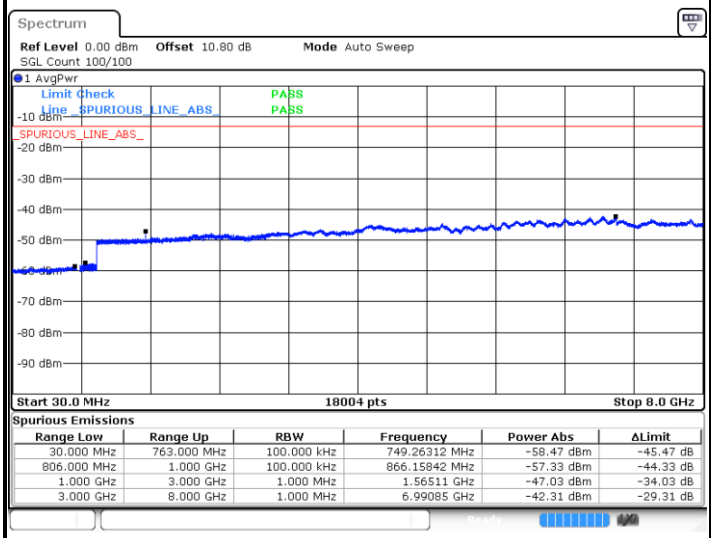


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	713.36407 MHz	-58.62 dBm	-45.62 dB
806.000 MHz	1.000 GHz	100.000 kHz	882.83408 MHz	-57.51 dBm	-44.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99325 GHz	-47.76 dBm	-34.76 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99035 GHz	-42.31 dBm	-29.31 dB

Date: 11.OCT.2017 10:31:10

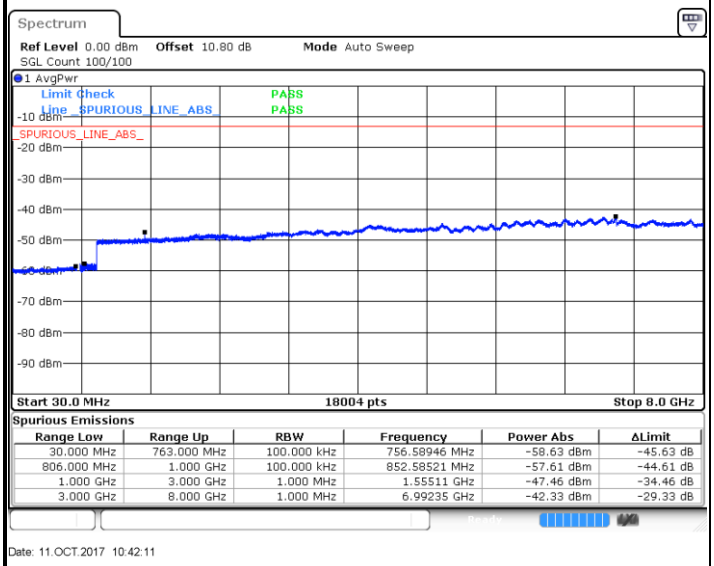
Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	749.26312 MHz	-58.47 dBm	-45.47 dB
806.000 MHz	1.000 GHz	100.000 kHz	866.15842 MHz	-57.33 dBm	-44.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-47.03 dBm	-34.03 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99085 GHz	-42.31 dBm	-29.31 dB

Date: 11.OCT.2017 10:36:01

LTE Band 13 / 10MHz	
Middle Channel / 64QAM	
	

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	756.58946 MHz	-58.63 dBm	-45.63 dB
806.000 MHz	1.000 GHz	100.000 kHz	852.58521 MHz	-57.61 dBm	-44.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-47.46 dBm	-34.46 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99235 GHz	-42.33 dBm	-29.33 dB

Date: 11.OCT.2017 10:42:11

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	0.0001	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0045	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

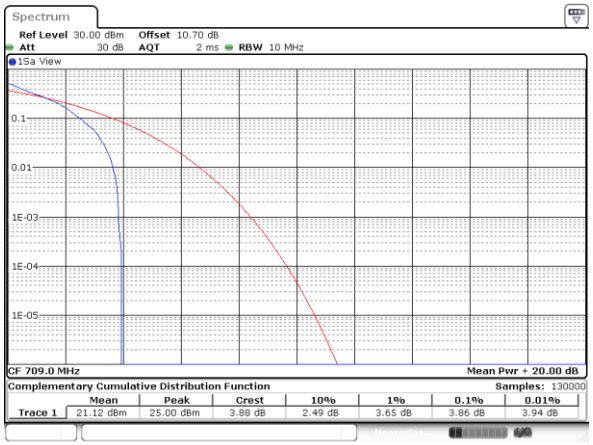
LTE Band 17

Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	4.87	4.9	5.68	PASS
Middle CH	3.86	4.84	4.84	5.71	
Highest CH	3.91	4.78	4.55	5.71	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	6.32	-	-	PASS
Middle CH	5.36	6.26	-	-	
Highest CH	5.28	6.23	-	-	

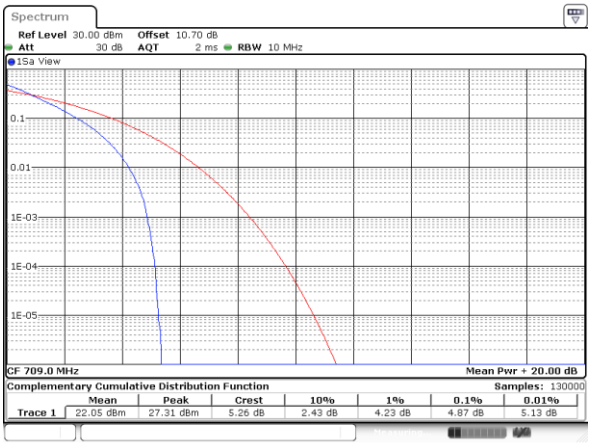
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



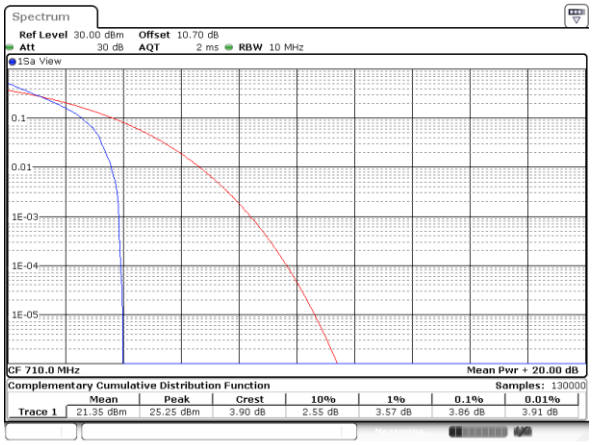
Date: 4.AUG.2017 00:12:18

Lowest Channel / Full RB



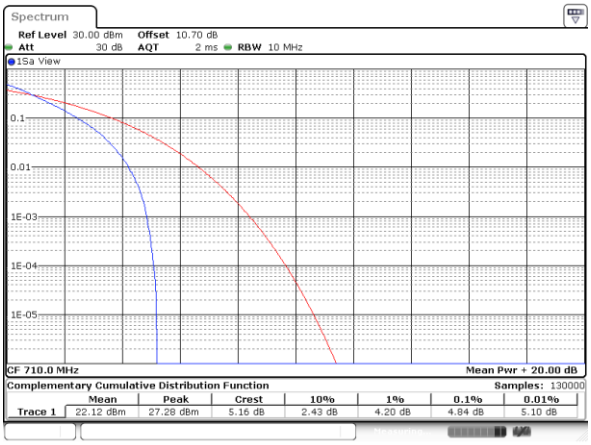
Date: 4.AUG.2017 00:12:29

Middle Channel / 1RB



Date: 4.AUG.2017 00:12:37

Middle Channel / Full RB



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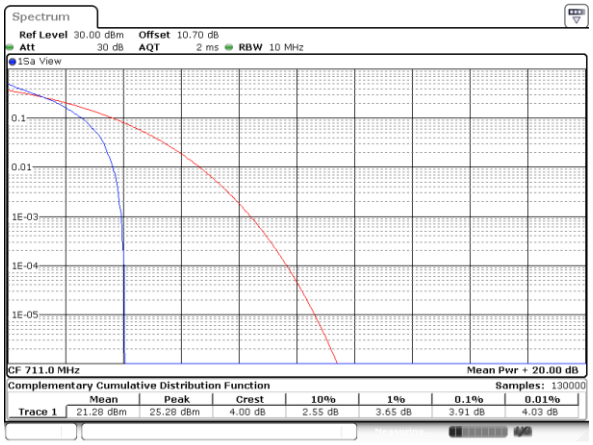
Highest Channel / 1RB



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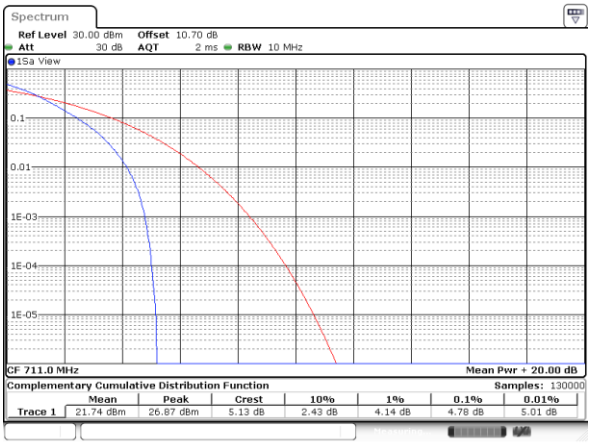
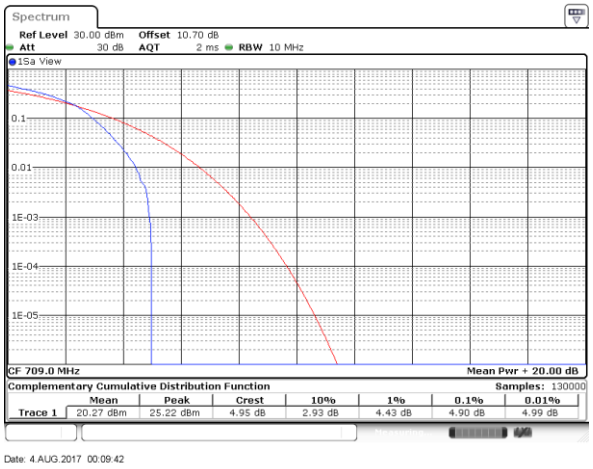
Highest Channel / Full RB



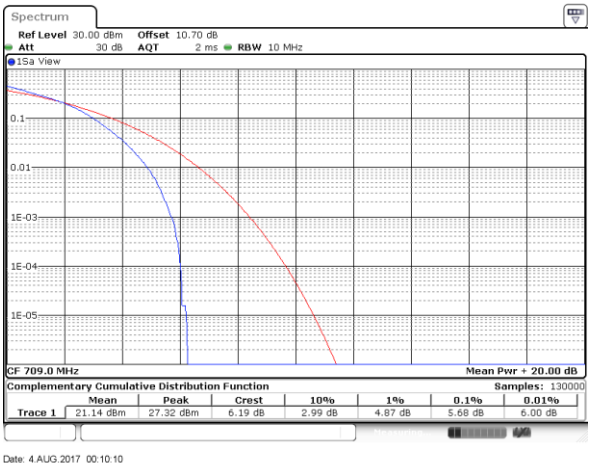
Date: 4.AUG.2017 00:13:19

LTE Band 17 / 10MHz / 16QAM

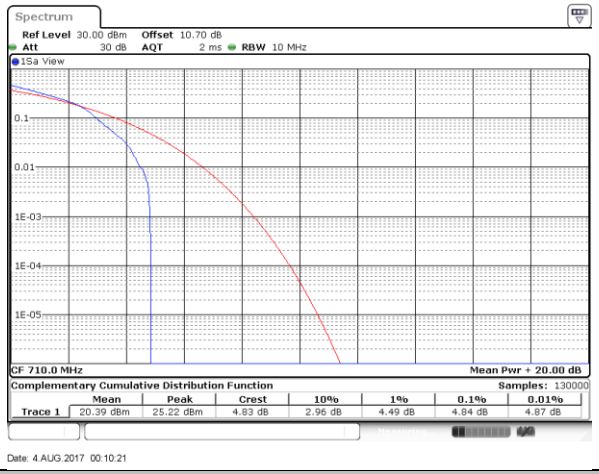
Lowest Channel / 1RB



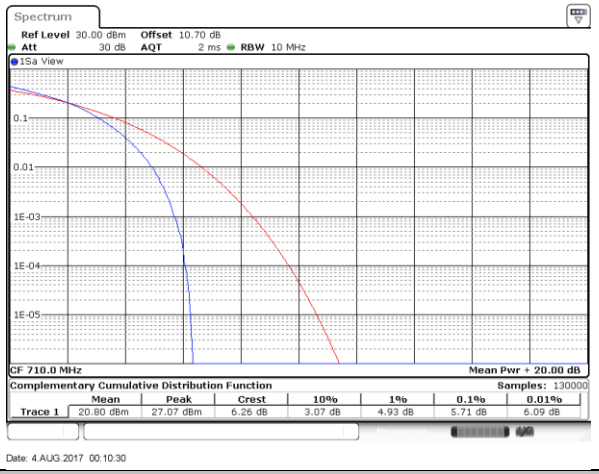
Lowest Channel / Full RB



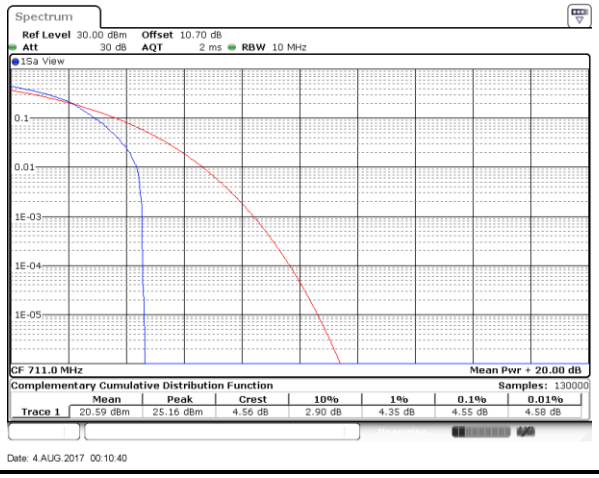
Middle Channel / 1RB



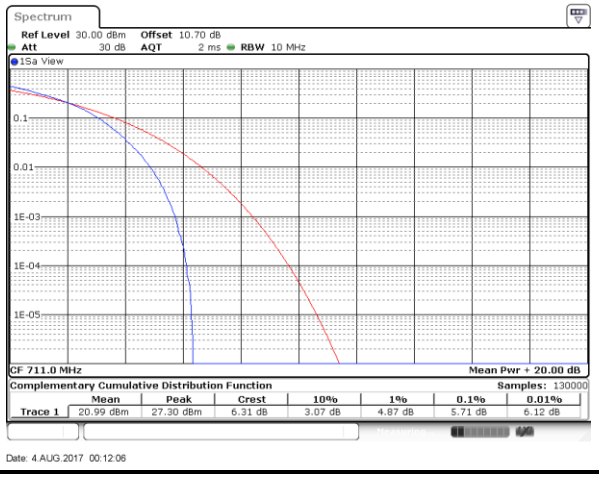
Middle Channel / Full RB



Highest Channel / 1RB

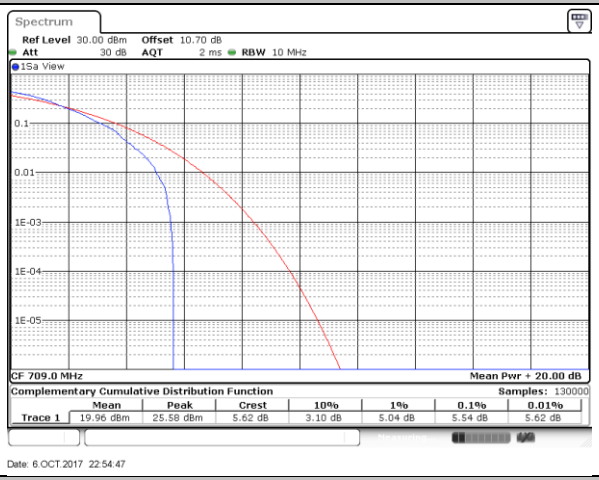


Highest Channel / Full RB

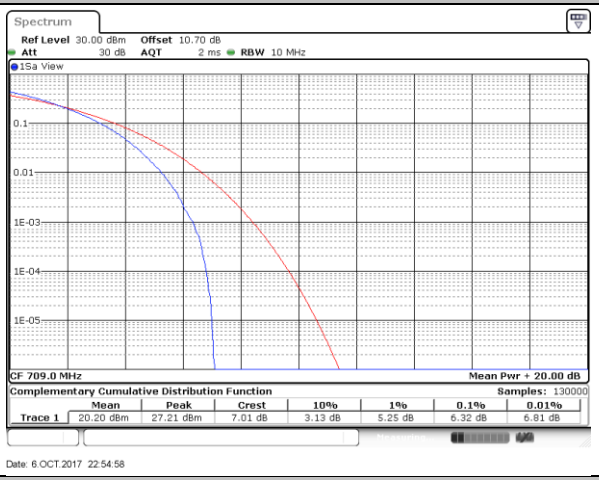


LTE Band 17 / 10MHz / 64QAM

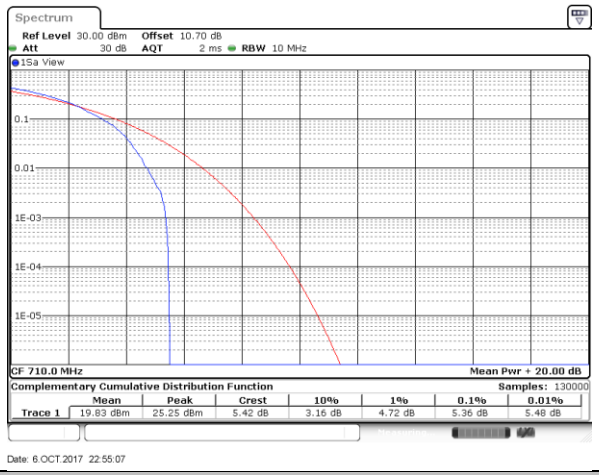
Lowest Channel / 1RB



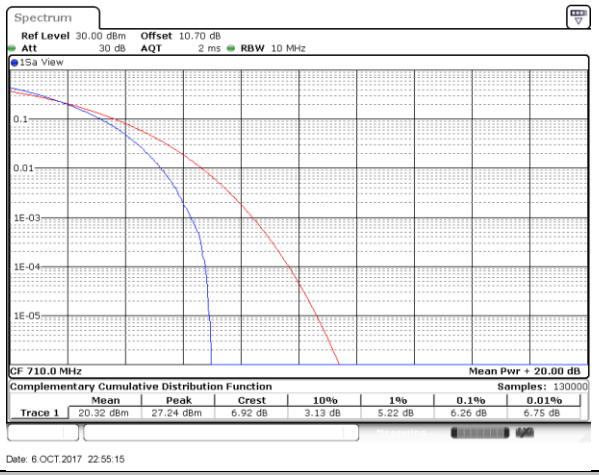
Lowest Channel / Full RB



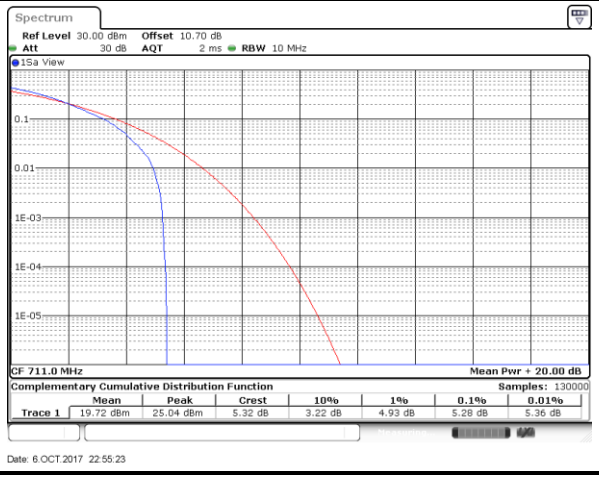
Middle Channel / 1RB



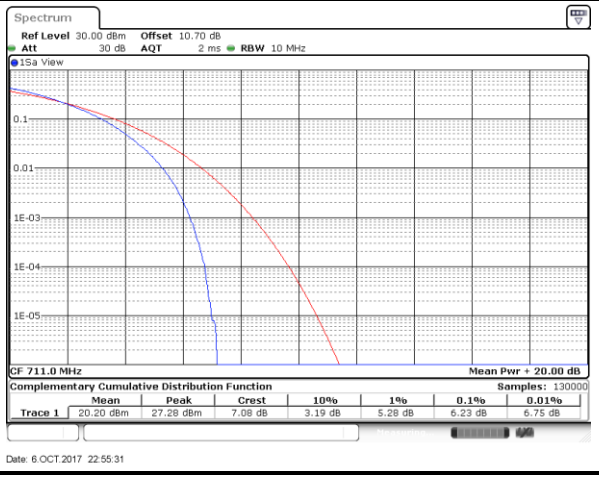
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

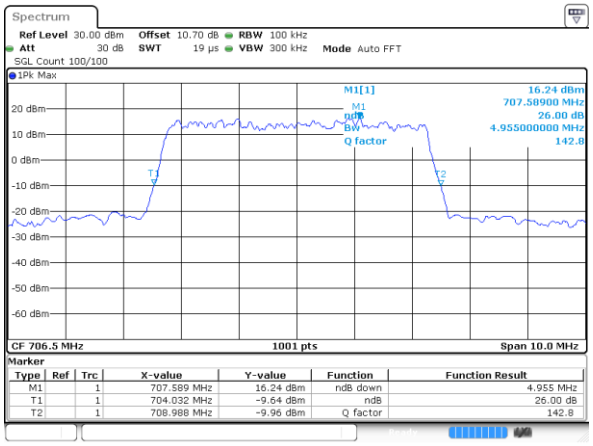


26dB Bandwidth

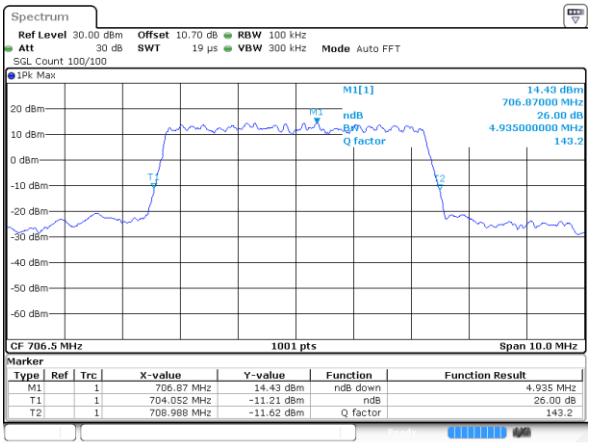
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.96	4.94	9.65	9.67	-	-	-	-
Middle CH	-	-	-	-	4.92	4.88	9.71	9.79	-	-	-	-
Highest CH	-	-	-	-	4.89	4.88	9.77	9.71	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.95	-	9.75	-	-	-	-	-
Middle CH	-	-	-	-	4.94	-	9.75	-	-	-	-	-
Highest CH	-	-	-	-	4.93	-	9.73	-	-	-	-	-

LTE Band 17

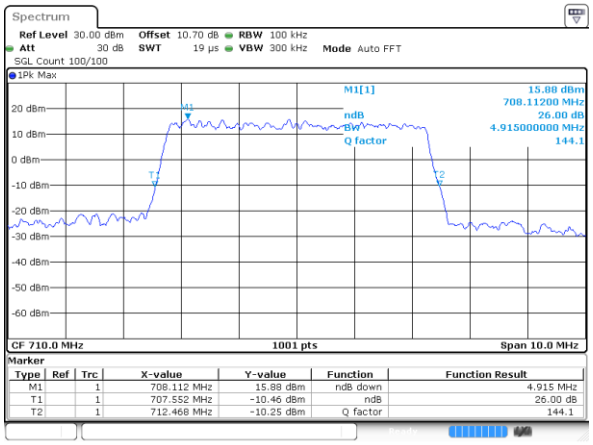
Lowest Channel / 5MHz / QPSK



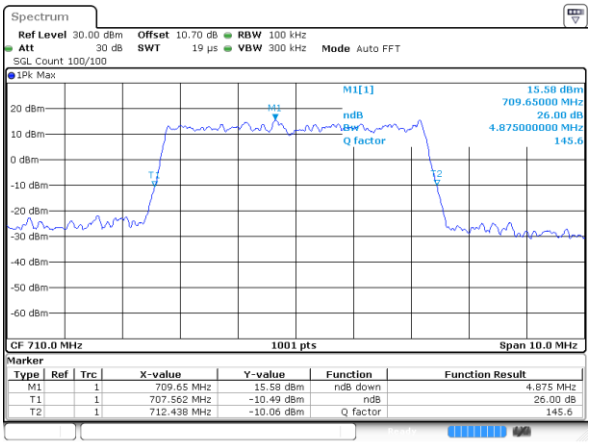
Lowest Channel / 5MHz / 16QAM



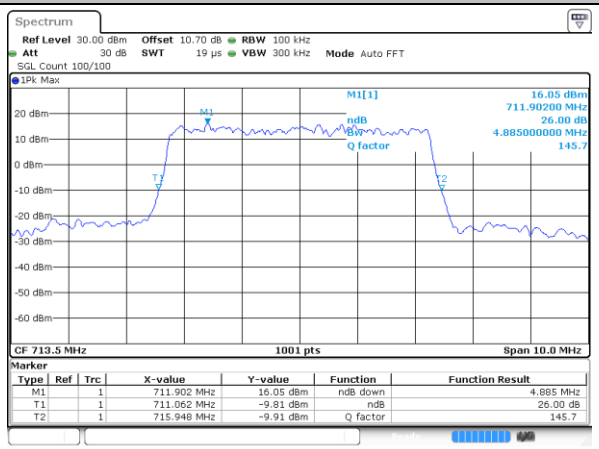
Middle Channel / 5MHz / QPSK



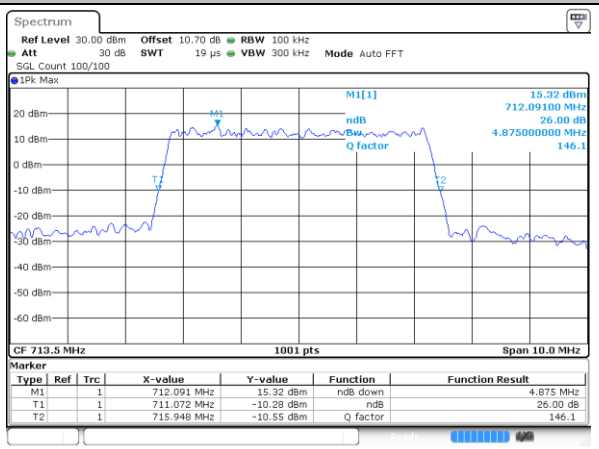
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

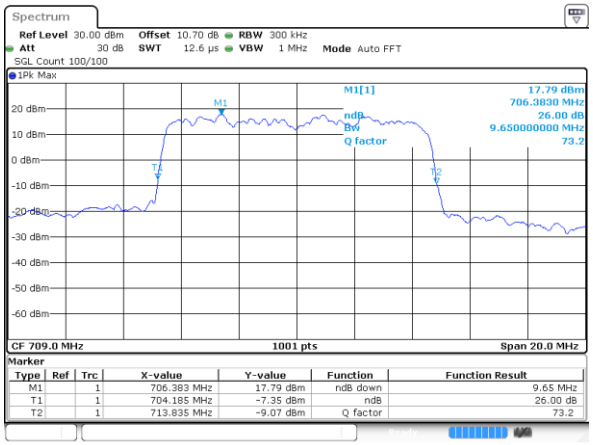


Highest Channel / 5MHz / 16QAM



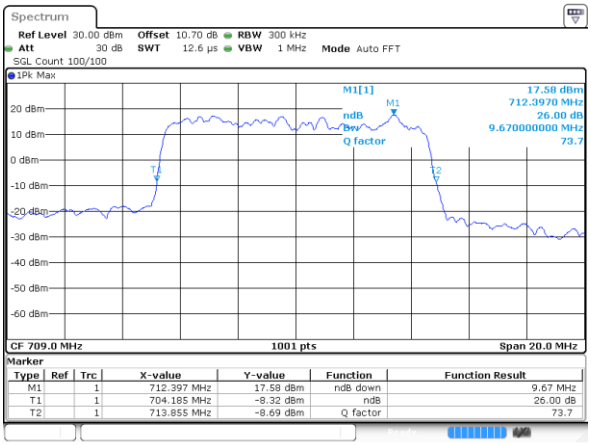
LTE Band 17

Lowest Channel / 10MHz / QPSK



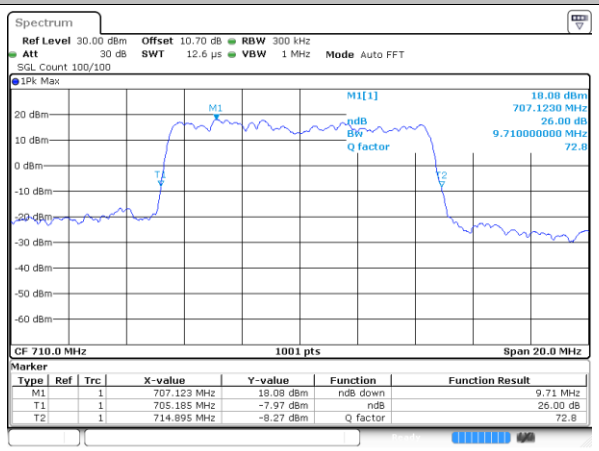
Date: 3.AUG.2017 21:59:14

Lowest Channel / 10MHz / 16QAM



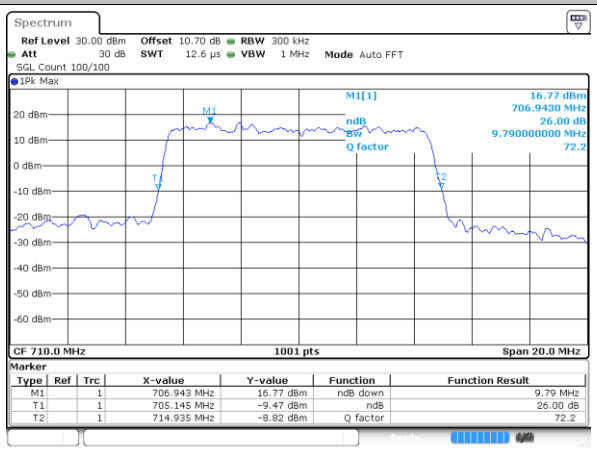
Date: 3.AUG.2017 21:59:24

Middle Channel / 10MHz / QPSK



Date: 3.AUG.2017 22:06:16

Middle Channel / 10MHz / 16QAM



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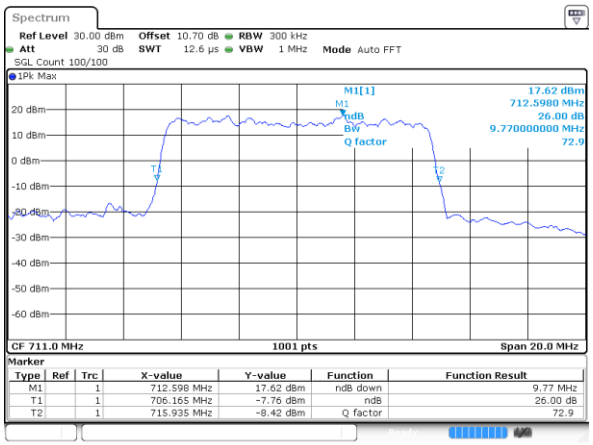
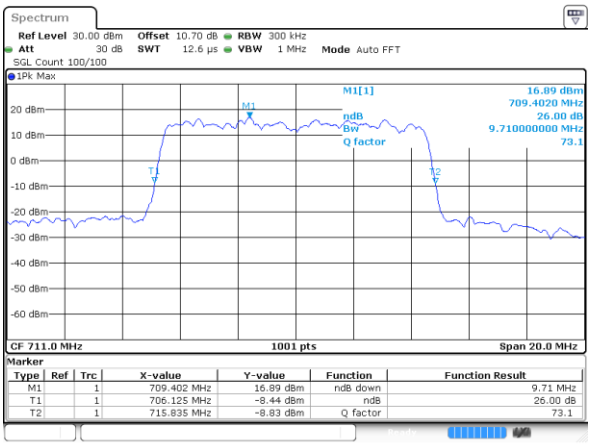
Highest Channel / 10MHz / QPSK



Date: 3.AUG.2017 22:08:44

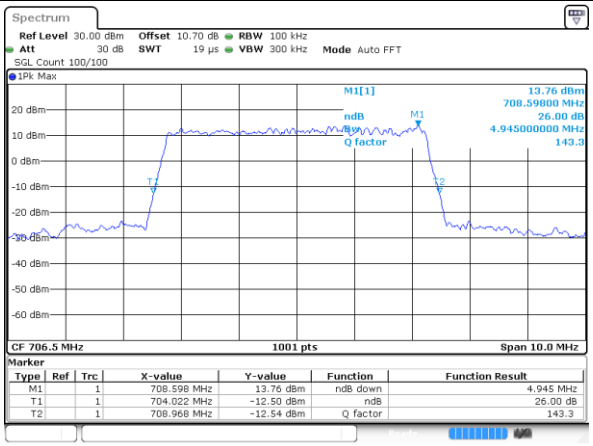
Highest Channel / 10MHz / 16QAM



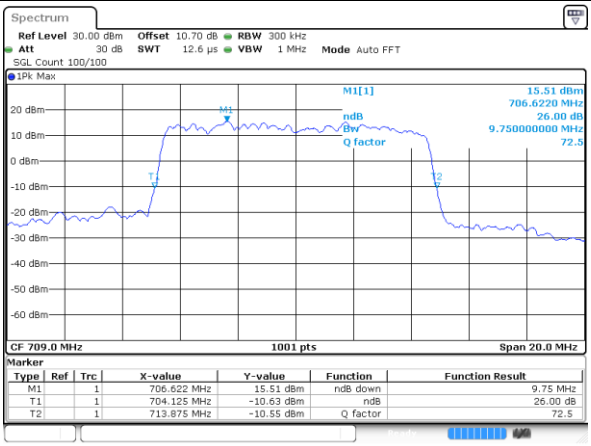
Date: 3.AUG.2017 22:08:54

LTE Band 17

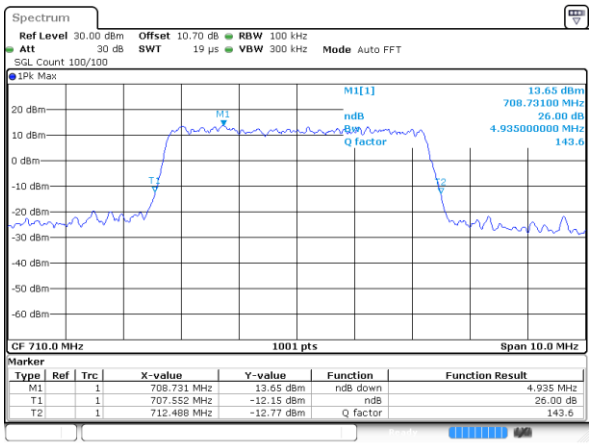
Lowest Channel / 5MHz / 64QAM



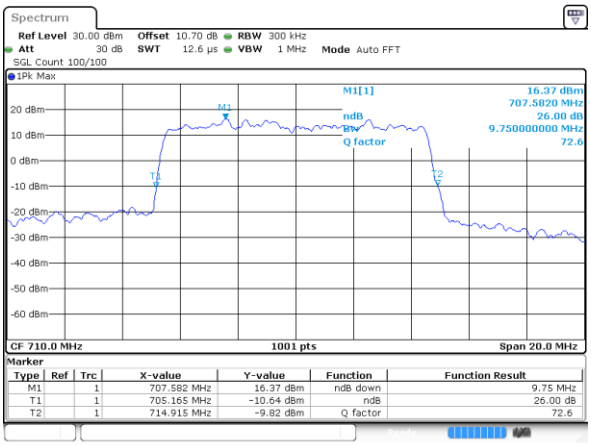
Lowest Channel / 10MHz / 64QAM



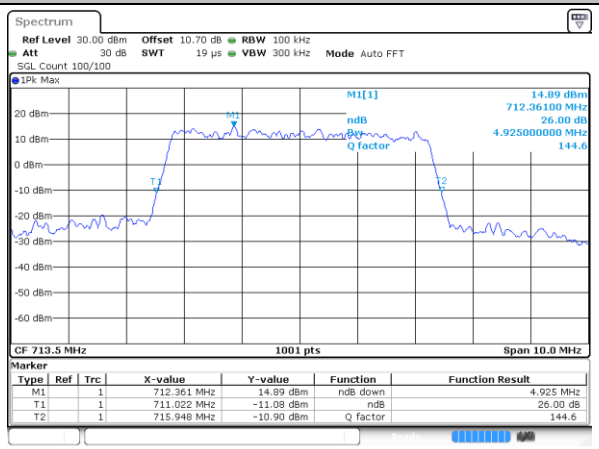
Middle Channel / 5MHz / 64QAM



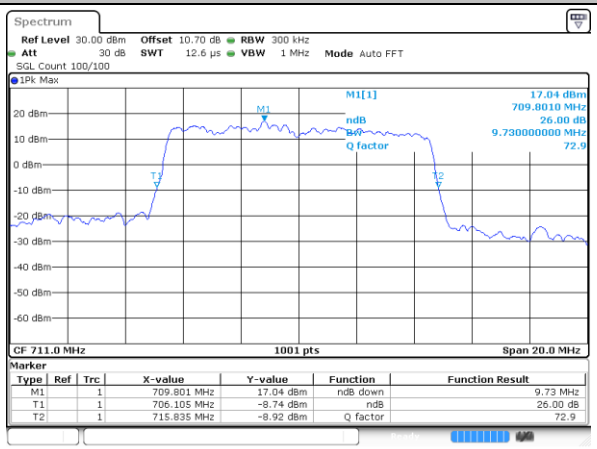
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

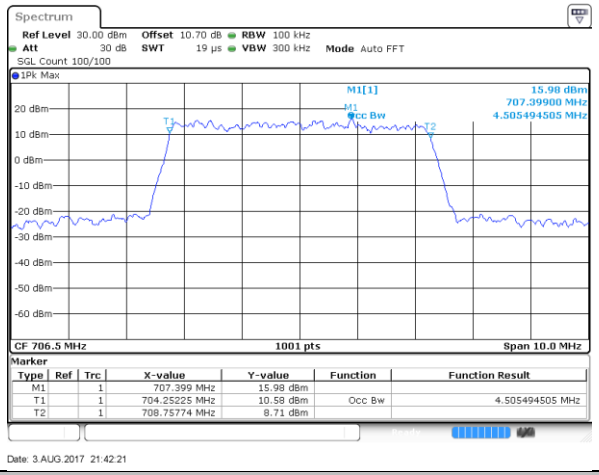


Occupied Bandwidth

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	-	-	-	-	4.51	4.51	9.01	9.01	-	-	-	-
Middle CH	-	-	-	-	4.52	4.51	9.13	9.03	-	-	-	-
Highest CH	-	-	-	-	4.47	4.48	9.05	9.01	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.5	-	8.95	-	-	-	-	-
Middle CH	-	-	-	-	4.5	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.5	-	9.09	-	-	-	-	-

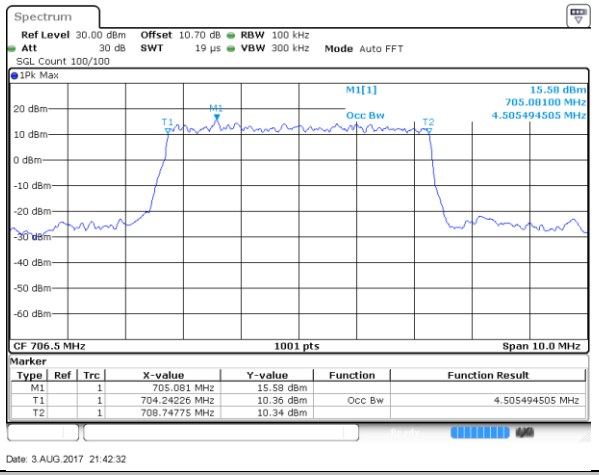
LTE Band 17

Lowest Channel / 5MHz / QPSK



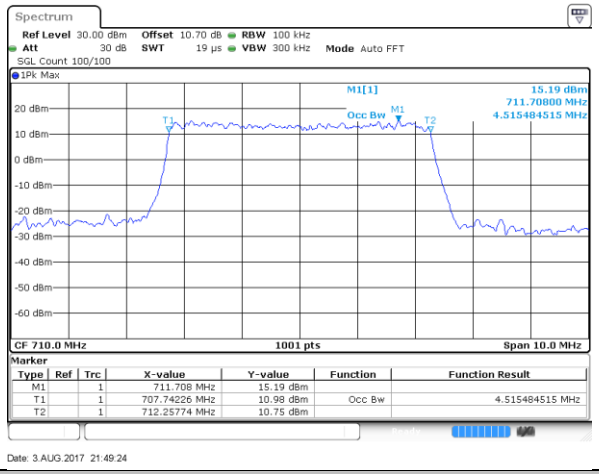
Date: 3.AUG.2017 21:42:21

Lowest Channel / 5MHz / 16QAM



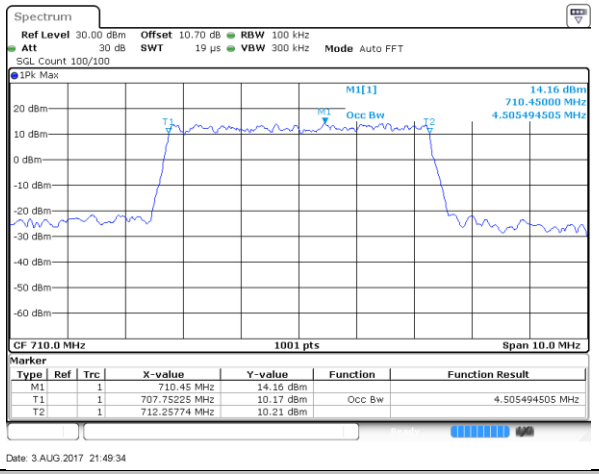
Date: 3.AUG.2017 21:42:32

Middle Channel / 5MHz / QPSK



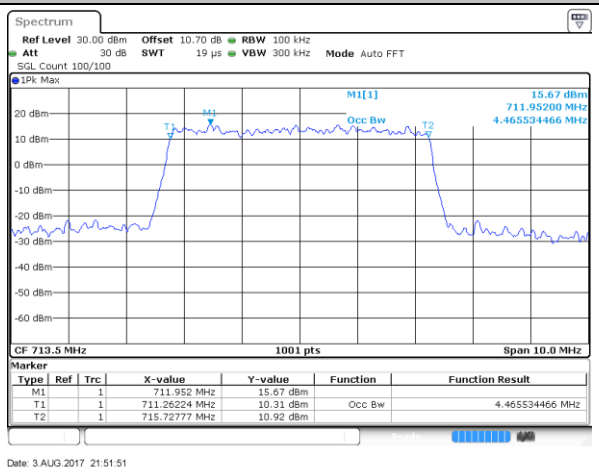
Date: 3.AUG.2017 21:49:24

Middle Channel / 5MHz / 16QAM



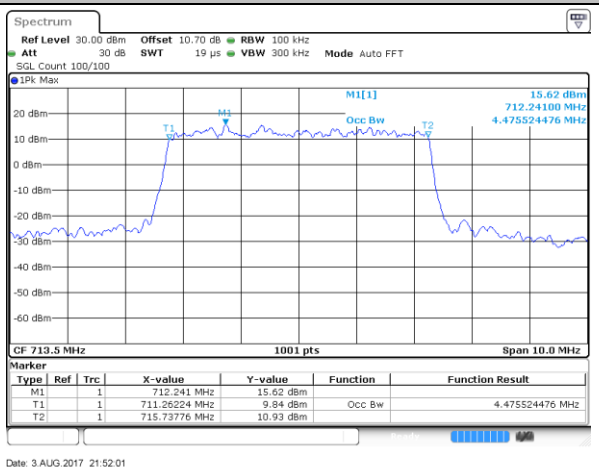
Date: 3.AUG.2017 21:49:34

Highest Channel / 5MHz / QPSK



Date: 3.AUG.2017 21:51:51

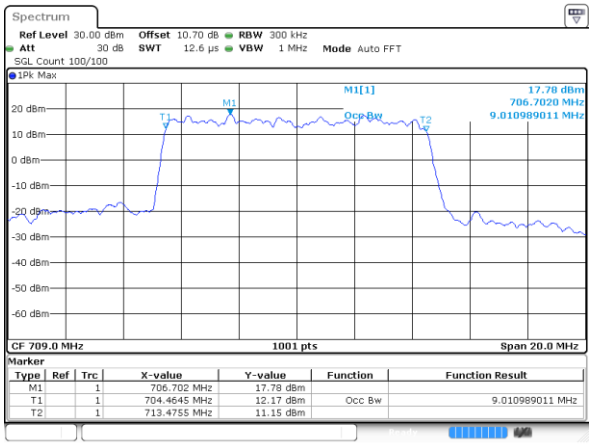
Highest Channel / 5MHz / 16QAM



Date: 3.AUG.2017 21:52:01

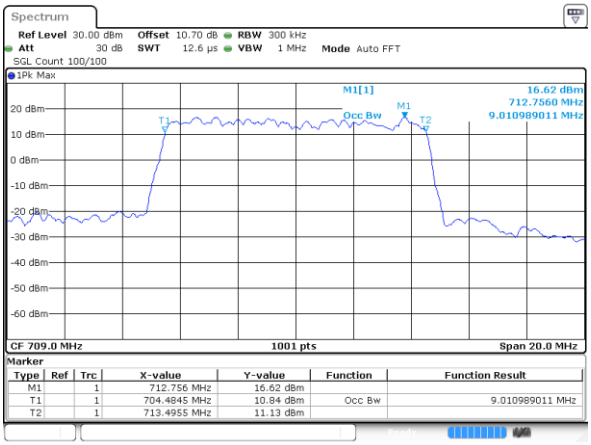
LTE Band 17

Lowest Channel / 10MHz / QPSK



Date: 3.AUG.2017 21:58:53

Lowest Channel / 10MHz / 16QAM



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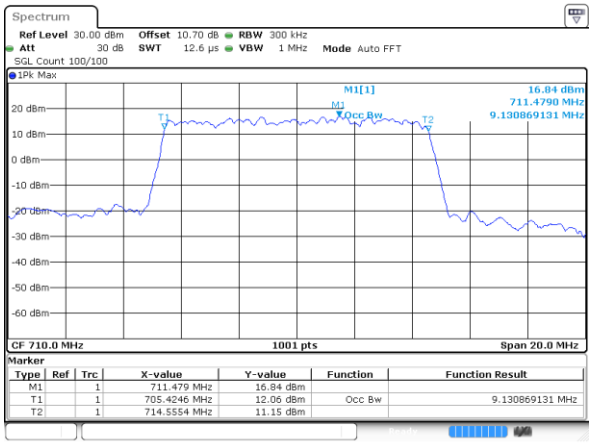
Middle Channel / 10MHz / QPSK



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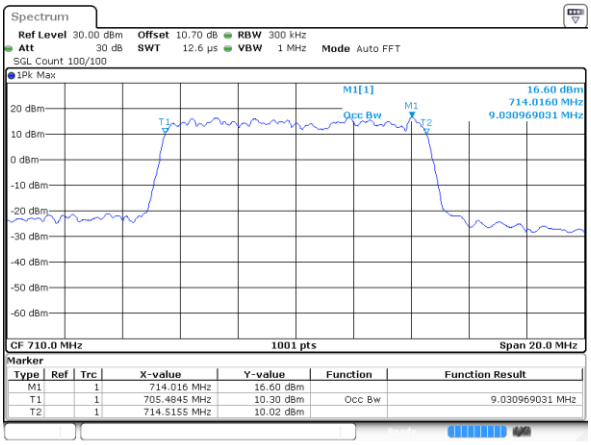
Middle Channel / 10MHz / 16QAM



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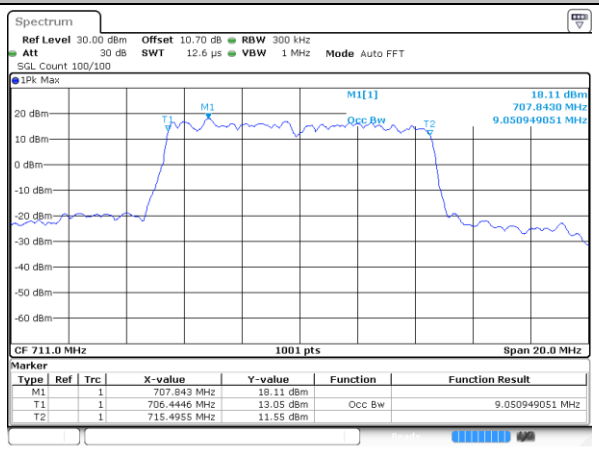
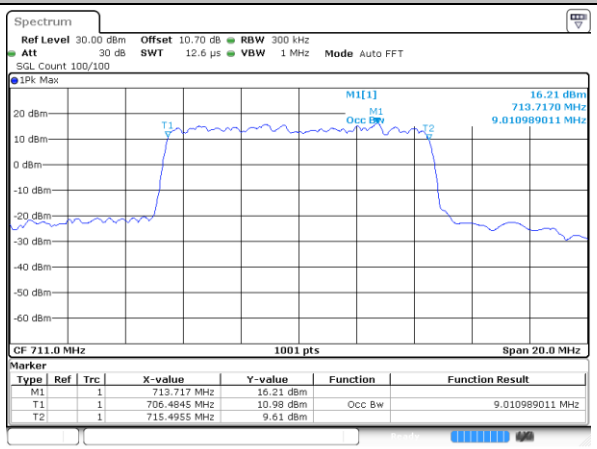
Highest Channel / 10MHz / QPSK



Date: 3.AUG.2017 22:08:24

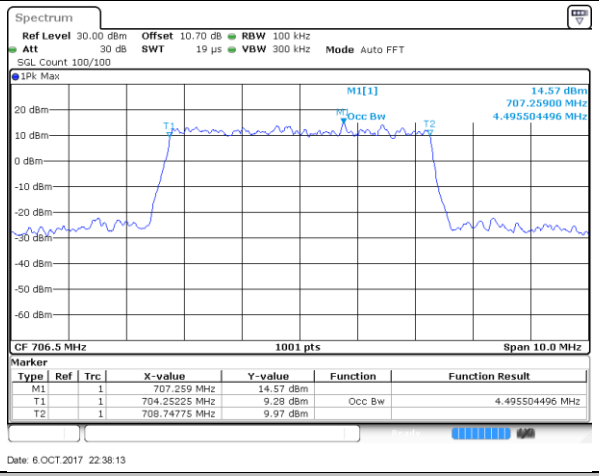
Highest Channel / 10MHz / 16QAM



Date: 3.AUG.2017 22:08:34

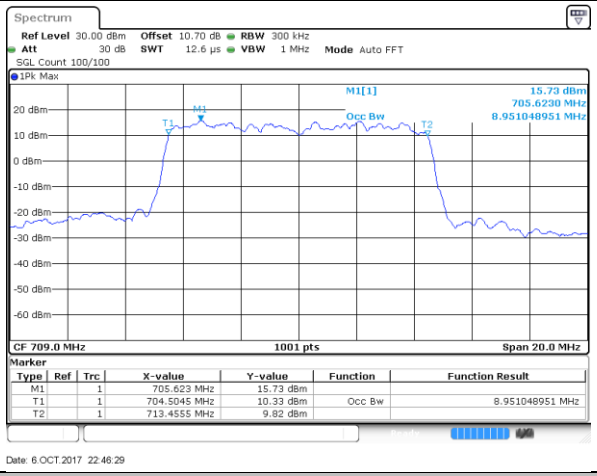
LTE Band 17

Lowest Channel / 5MHz / 64QAM



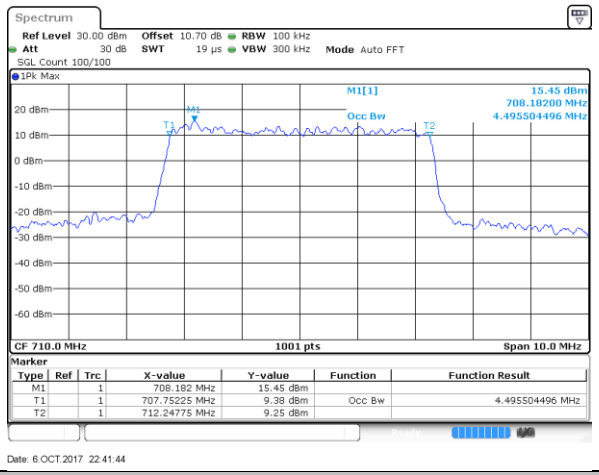
Date: 6.OCT.2017 22:38:13

Lowest Channel / 10MHz / 64QAM



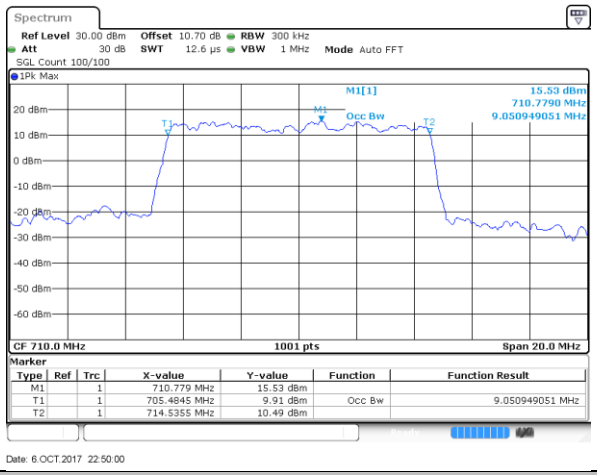
Date: 6.OCT.2017 22:46:29

Middle Channel / 5MHz / 64QAM



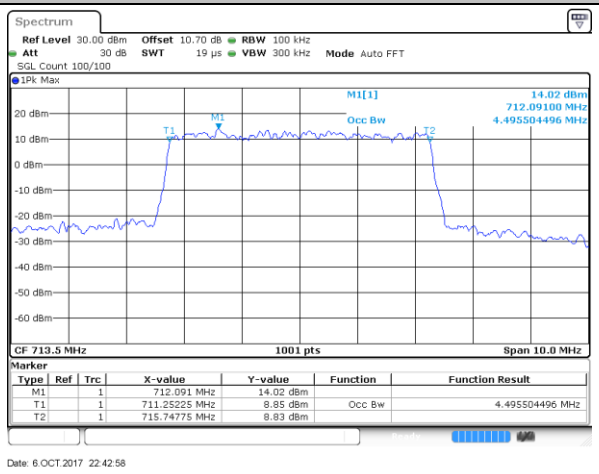
Date: 6.OCT.2017 22:41:44

Middle Channel / 10MHz / 64QAM



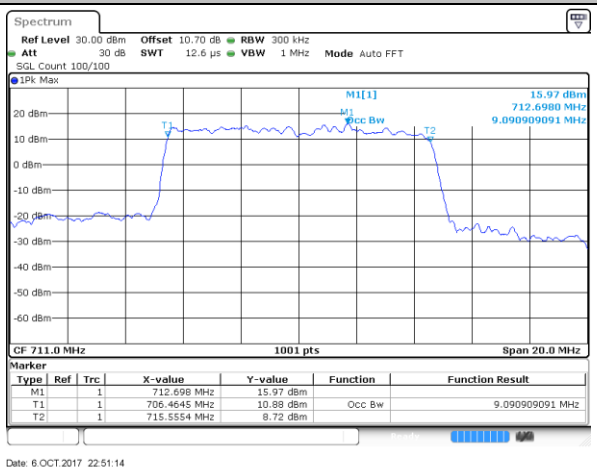
Date: 6.OCT.2017 22:50:00

Highest Channel / 5MHz / 64QAM



Date: 6.OCT.2017 22:42:58

Highest Channel / 10MHz / 64QAM



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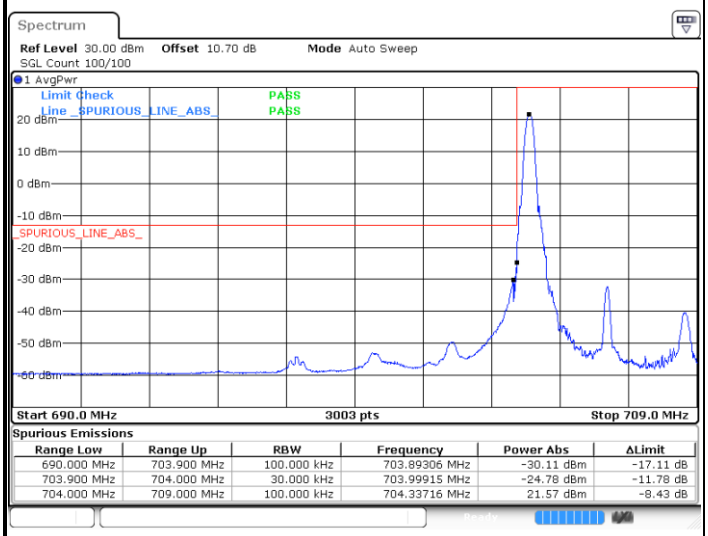
Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

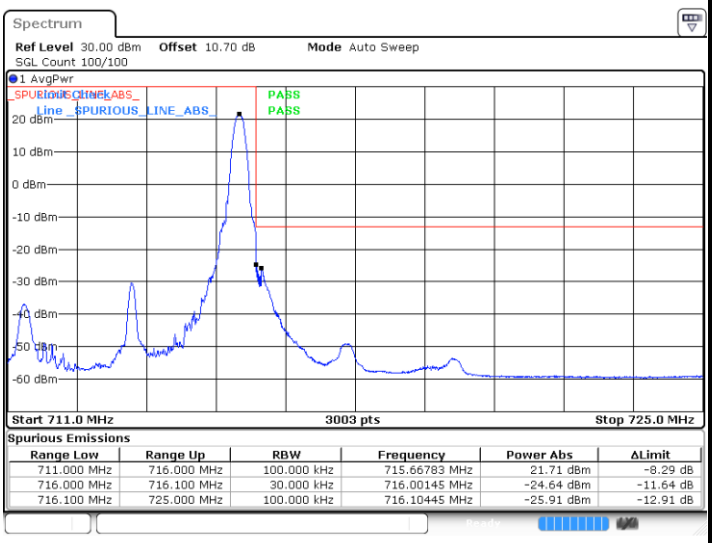


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-30.11 dBm	-17.11 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99915 MHz	-24.78 dBm	-11.78 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.33716 MHz	21.57 dBm	-8.43 dB

Date: 3.AUG.2017 21:44:00

Highest Band Edge / 1 RB

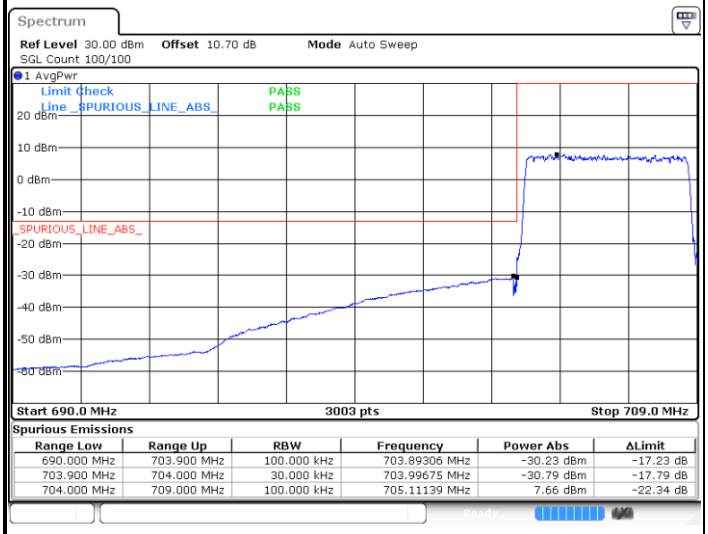


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66783 MHz	21.71 dBm	-8.29 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00145 MHz	-24.64 dBm	-11.64 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-25.91 dBm	-12.91 dB

Date: 3.AUG.2017 21:53:30

Lowest Band Edge / Full RB

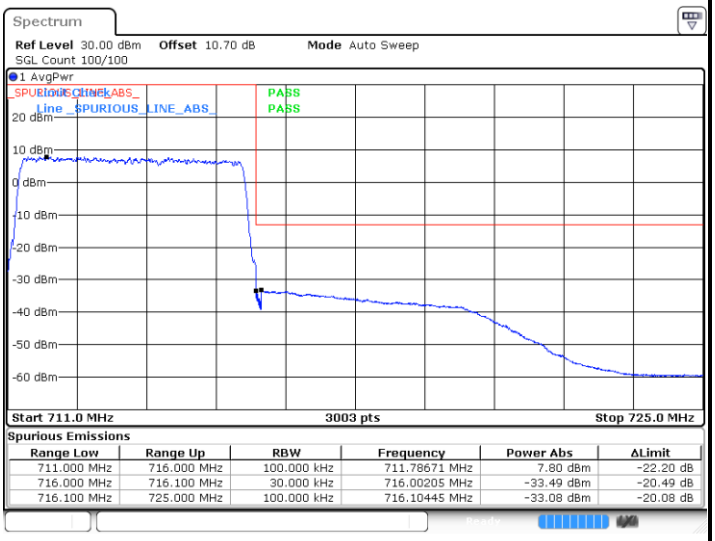


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-30.23 dBm	-17.23 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99675 MHz	-30.79 dBm	-17.79 dB
704.000 MHz	709.000 MHz	100.000 kHz	705.11139 MHz	7.66 dBm	-22.34 dB

Date: 3.AUG.2017 21:46:17

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	711.78671 MHz	7.80 dBm	-22.20 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00205 MHz	-33.49 dBm	-20.49 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.08 dBm	-20.08 dB

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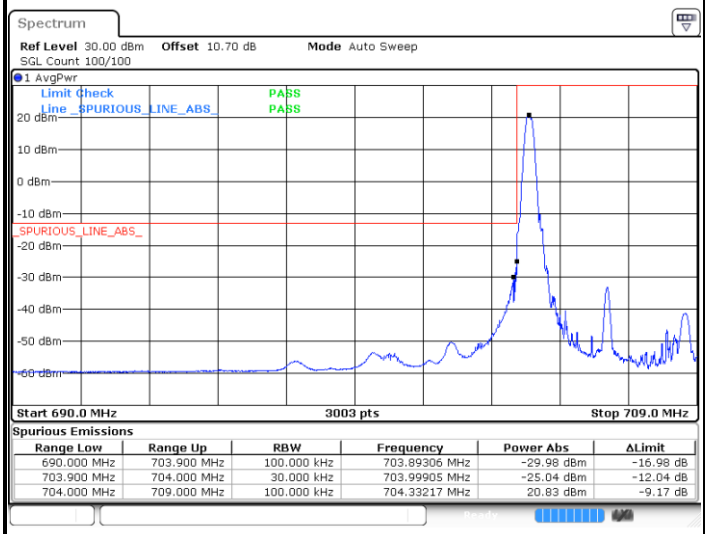
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

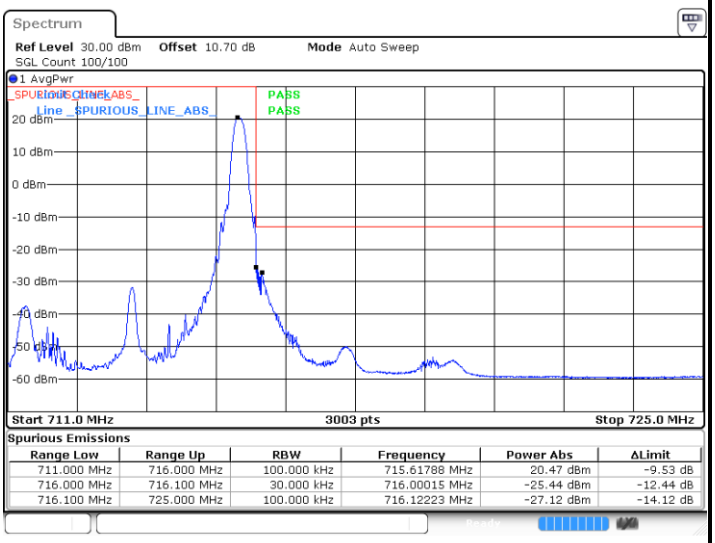


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-29.98 dBm	-16.98 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99905 MHz	-25.04 dBm	-12.04 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.33217 MHz	20.83 dBm	-9.17 dB

Date: 3.AUG.2017 21:45:09

Highest Band Edge / 1 RB

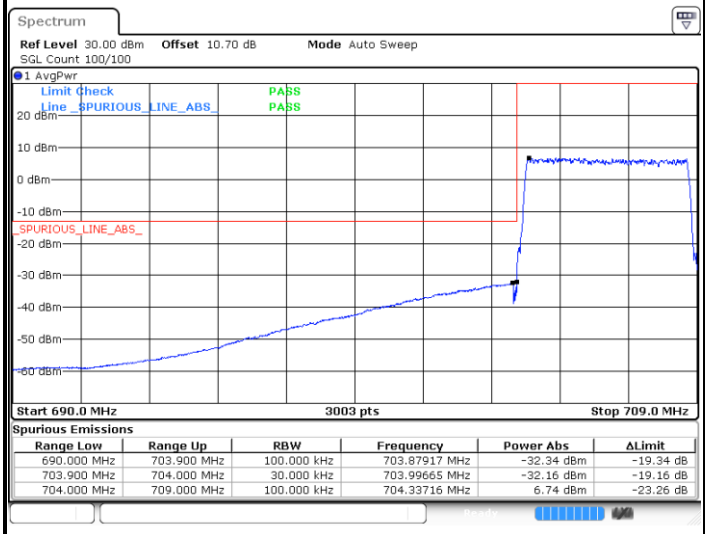


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.61788 MHz	20.47 dBm	-9.53 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00015 MHz	-25.44 dBm	-12.44 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-27.12 dBm	-14.12 dB

Date: 3.AUG.2017 21:54:38

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.87917 MHz	-32.34 dBm	-19.34 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99665 MHz	-32.16 dBm	-19.16 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.33716 MHz	6.74 dBm	-23.26 dB

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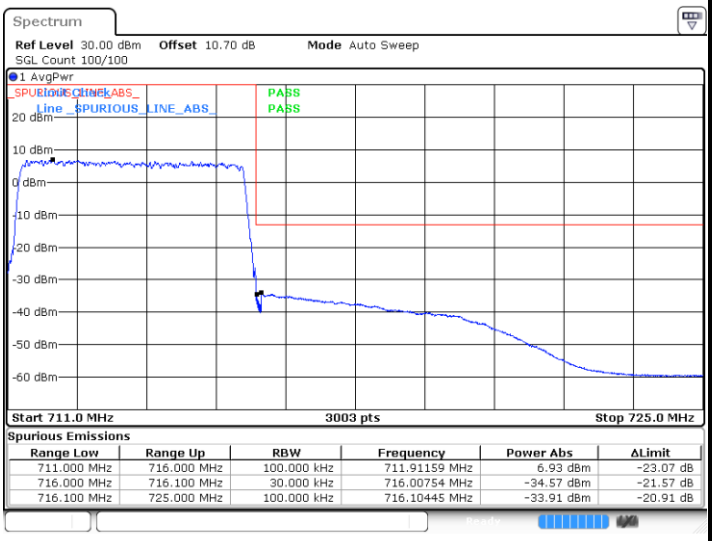
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.91159 MHz	6.93 dBm	-23.07 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00754 MHz	-34.57 dBm	-21.57 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.91 dBm	-20.91 dB

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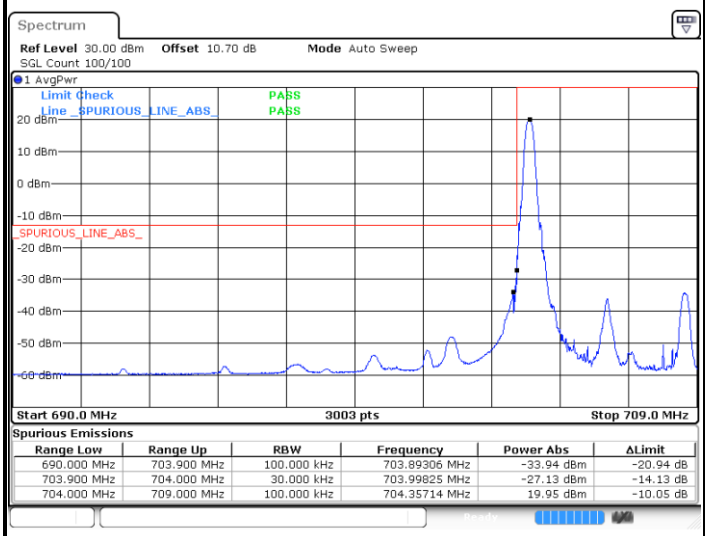
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-33.94 dBm	-20.94 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99825 MHz	-27.13 dBm	-14.13 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.35714 MHz	19.95 dBm	-10.05 dB

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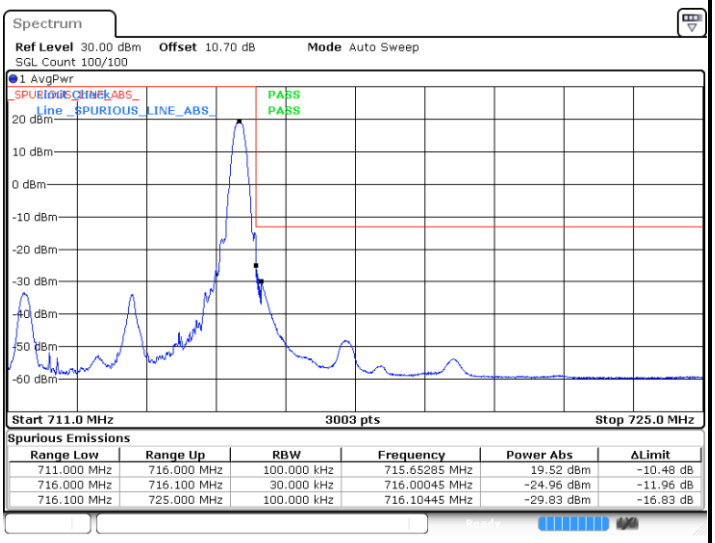
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.65285 MHz	19.52 dBm	-10.48 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00045 MHz	-24.96 dBm	-11.96 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.83 dBm	-16.83 dB

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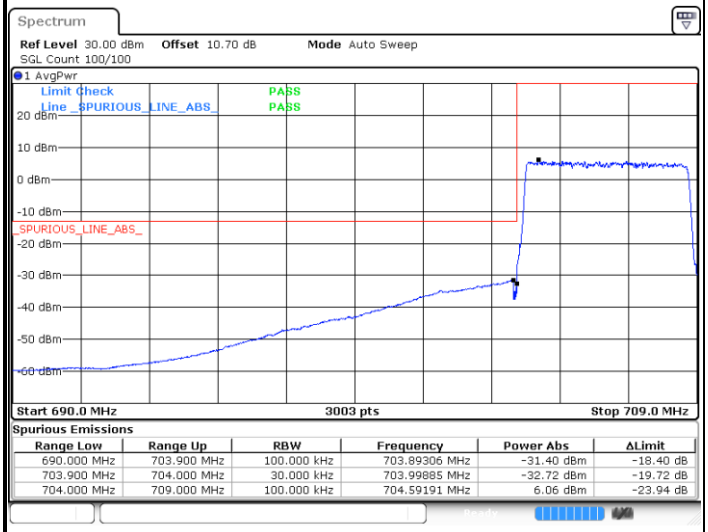
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-31.40 dBm	-18.40 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99885 MHz	-32.72 dBm	-19.72 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.59191 MHz	6.06 dBm	-23.94 dB

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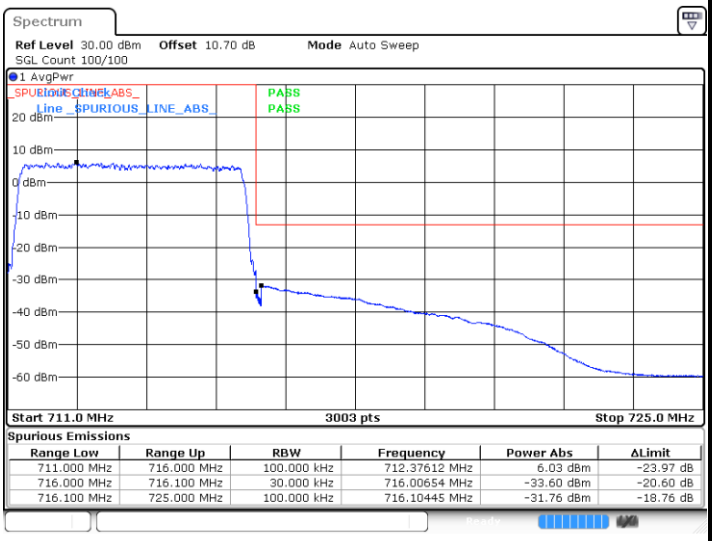
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.37612 MHz	6.03 dBm	-23.97 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00654 MHz	-33.60 dBm	-20.60 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.76 dBm	-18.76 dB

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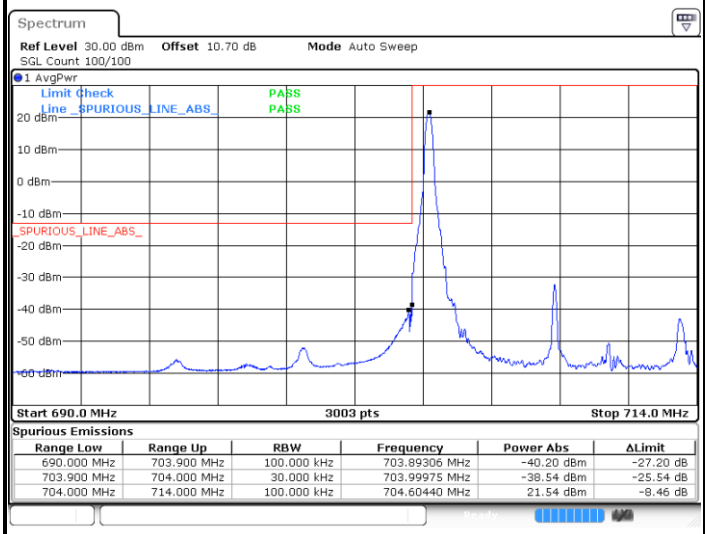
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

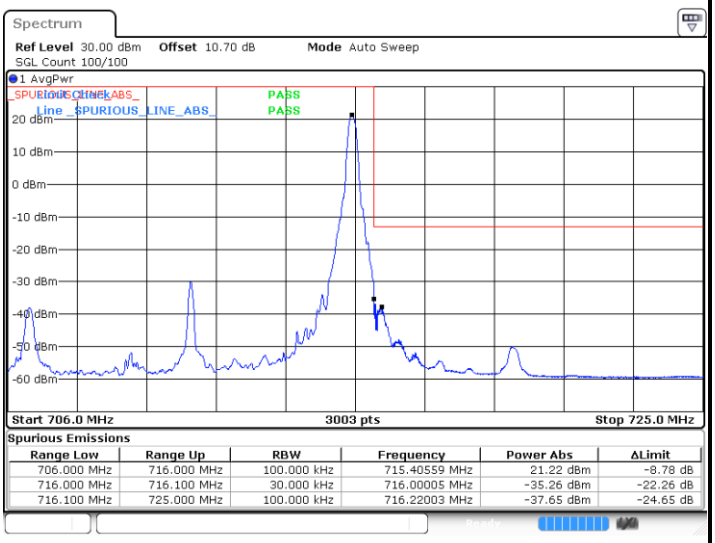


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-40.20 dBm	-27.20 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99975 MHz	-38.54 dBm	-25.54 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.60440 MHz	21.54 dBm	-8.46 dB

Date: 3.AUG.2017 22:00:32

Highest Band Edge / 1 RB

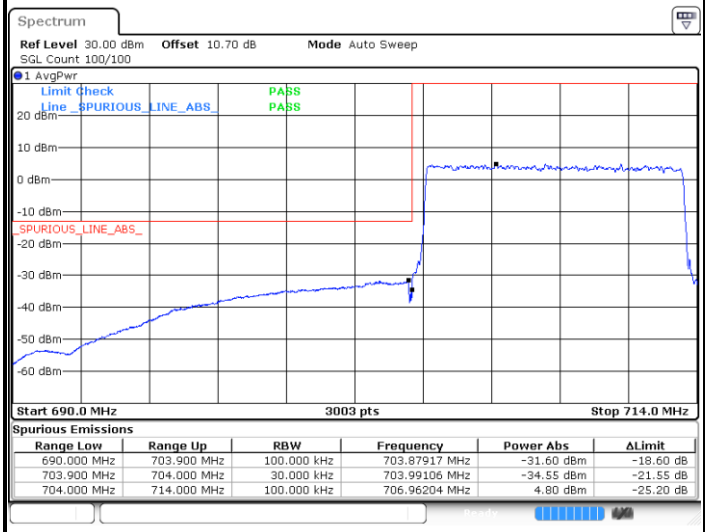


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.40559 MHz	21.22 dBm	-8.78 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-35.26 dBm	-22.26 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.22003 MHz	-37.65 dBm	-24.65 dB

Date: 3.AUG.2017 22:10:02

Lowest Band Edge / Full RB

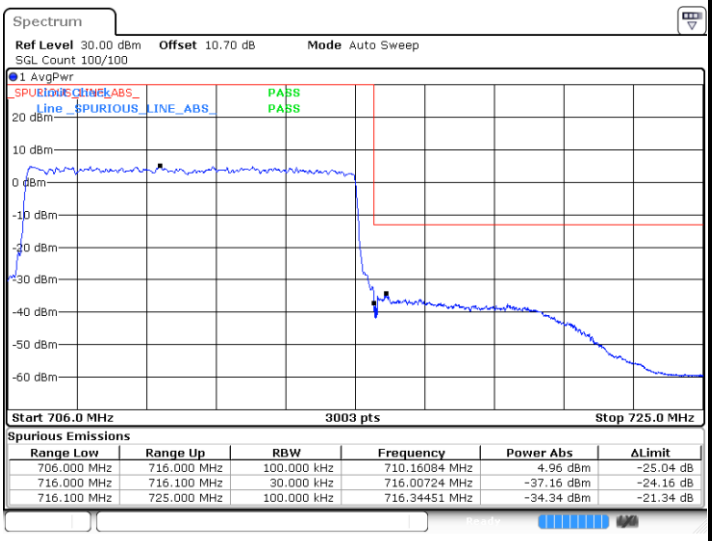


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.87917 MHz	-31.60 dBm	-18.60 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99106 MHz	-34.55 dBm	-21.55 dB
704.000 MHz	714.000 MHz	100.000 kHz	706.96204 MHz	4.80 dBm	-25.20 dB

Date: 3.AUG.2017 22:02:49

Highest Band Edge / Full RB



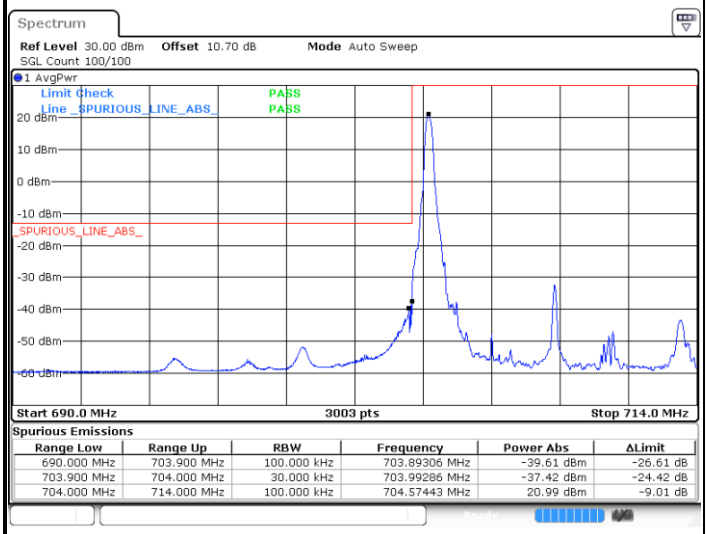
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	710.16084 MHz	4.96 dBm	-25.04 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00724 MHz	-37.16 dBm	-24.16 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.34451 MHz	-34.34 dBm	-21.34 dB

Date: 3.AUG.2017 22:12:20

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

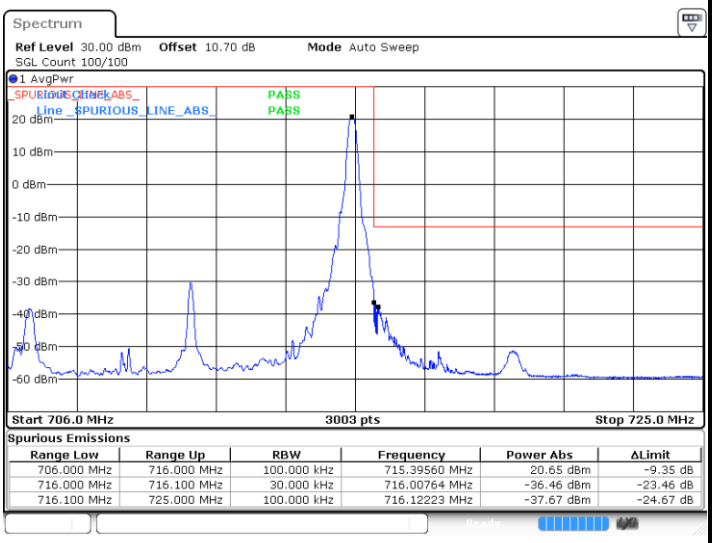


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-39.61 dBm	-26.61 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99286 MHz	-37.42 dBm	-24.42 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.57443 MHz	20.99 dBm	-9.01 dB

Date: 3.AUG.2017 22:01:41

Highest Band Edge / 1 RB

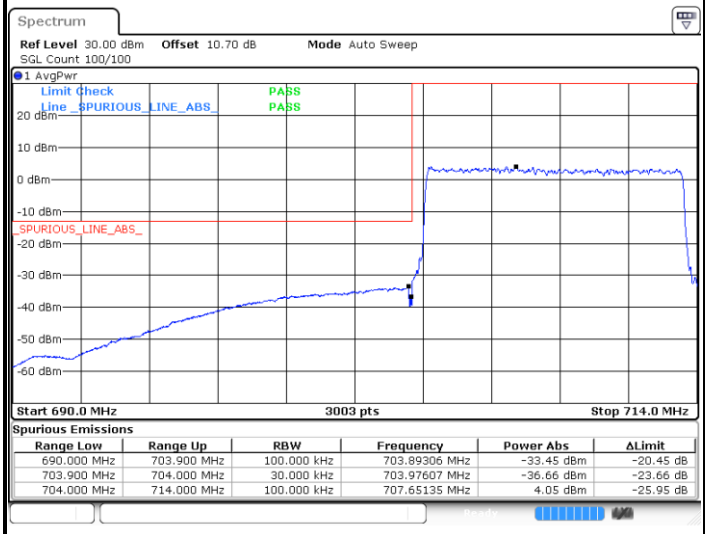


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	20.65 dBm	-9.35 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00764 MHz	-36.46 dBm	-23.46 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-37.67 dBm	-24.67 dB

Date: 3.AUG.2017 22:11:11

Lowest Band Edge / Full RB

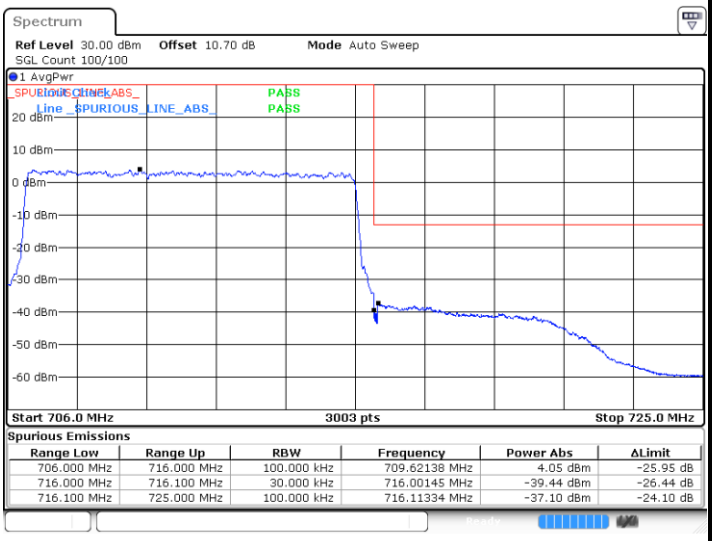


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-33.45 dBm	-20.45 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.97607 MHz	-36.66 dBm	-23.66 dB
704.000 MHz	714.000 MHz	100.000 kHz	707.65135 MHz	4.05 dBm	-25.95 dB

Date: 3.AUG.2017 22:03:58

Highest Band Edge / Full RB



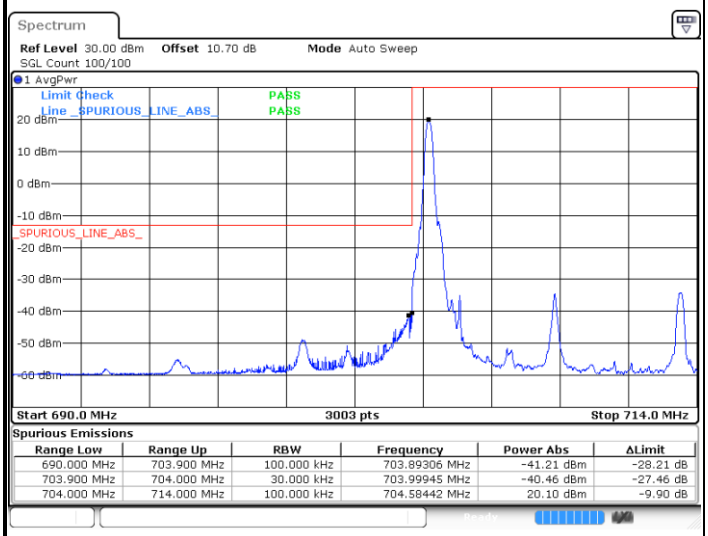
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	709.62138 MHz	4.05 dBm	-25.95 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00145 MHz	-39.44 dBm	-26.44 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-37.10 dBm	-24.10 dB

Date: 3.AUG.2017 22:13:28

LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

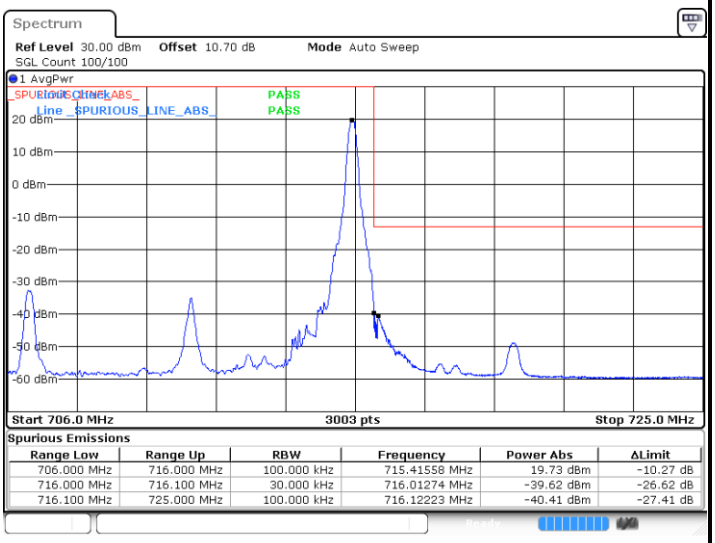


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-41.21 dBm	-28.21 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99945 MHz	-40.46 dBm	-27.46 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.58442 MHz	20.10 dBm	-9.90 dB

Date: 6.OCT.2017 22:47:47

Highest Band Edge / 1 RB

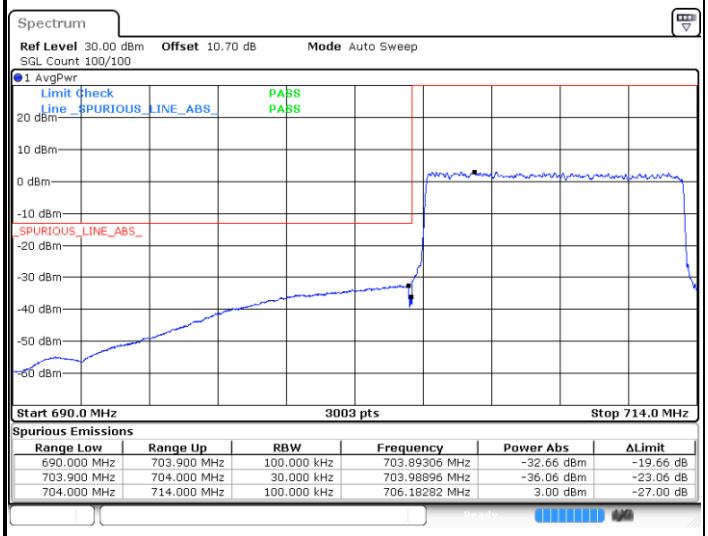


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.41558 MHz	19.73 dBm	-10.27 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01274 MHz	-39.62 dBm	-26.62 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-40.41 dBm	-27.41 dB

Date: 6.OCT.2017 22:52:32

Lowest Band Edge / Full RB

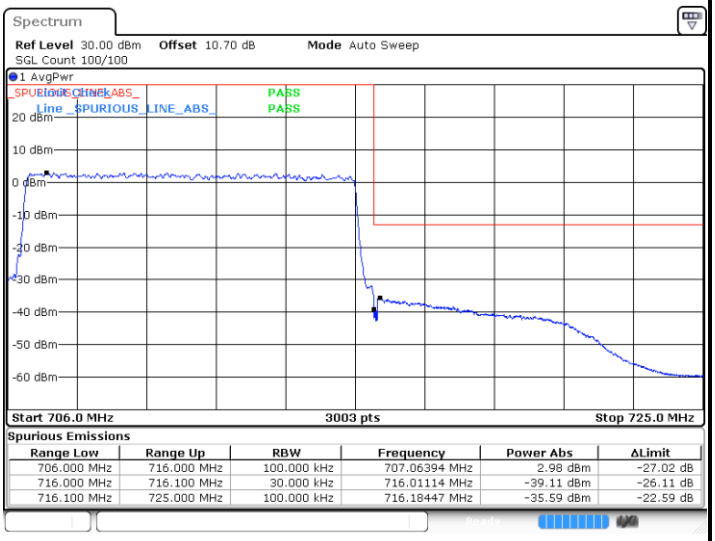


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.66 dBm	-19.66 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.98896 MHz	-36.06 dBm	-23.06 dB
704.000 MHz	714.000 MHz	100.000 kHz	706.18282 MHz	3.00 dBm	-27.00 dB

Date: 6.OCT.2017 22:48:56

Highest Band Edge / Full RB



Spurious Emissions

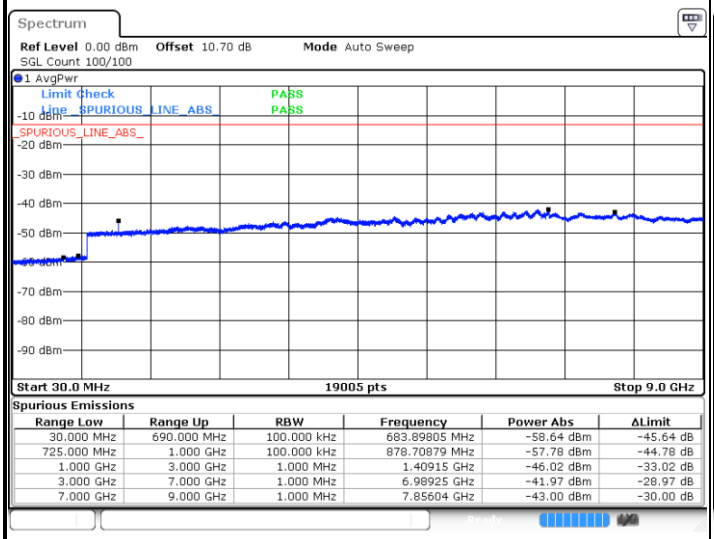
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	707.06394 MHz	2.98 dBm	-27.02 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01114 MHz	-39.11 dBm	-26.11 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.18447 MHz	-35.59 dBm	-22.59 dB

Date: 6.OCT.2017 22:53:41

Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

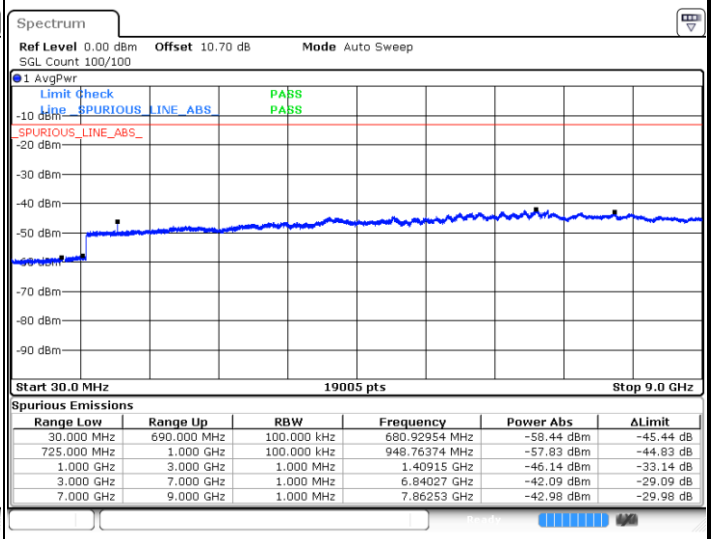


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.89805 MHz	-58.64 dBm	-45.64 dB
725.000 MHz	1.000 GHz	100.000 kHz	878.70879 MHz	-57.78 dBm	-44.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-46.02 dBm	-33.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-41.97 dBm	-28.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85604 GHz	-43.00 dBm	-30.00 dB

Date: 3.AUG.2017 21:48:20

Lowest Channel / 16QAM

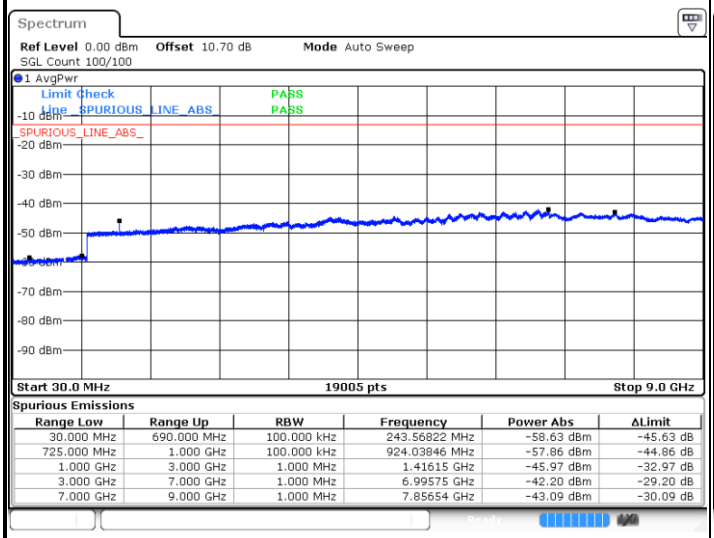


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	680.92954 MHz	-58.44 dBm	-45.44 dB
725.000 MHz	1.000 GHz	100.000 kHz	948.76374 MHz	-57.83 dBm	-44.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-46.14 dBm	-33.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84027 GHz	-42.09 dBm	-29.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-42.98 dBm	-29.98 dB

Date: 3.AUG.2017 21:49:14

Middle Channel / QPSK

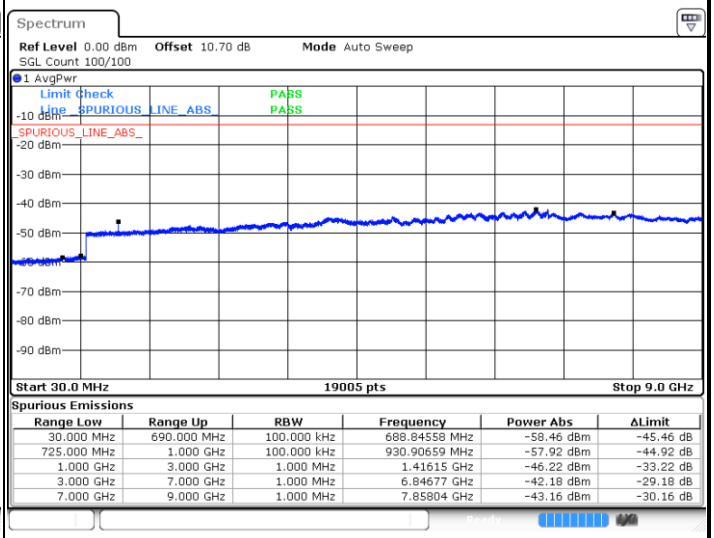


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	243.56822 MHz	-58.63 dBm	-45.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	924.03846 MHz	-57.86 dBm	-44.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-45.97 dBm	-32.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-42.20 dBm	-29.20 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85654 GHz	-43.09 dBm	-30.09 dB

Date: 3.AUG.2017 21:50:48

Middle Channel / 16QAM



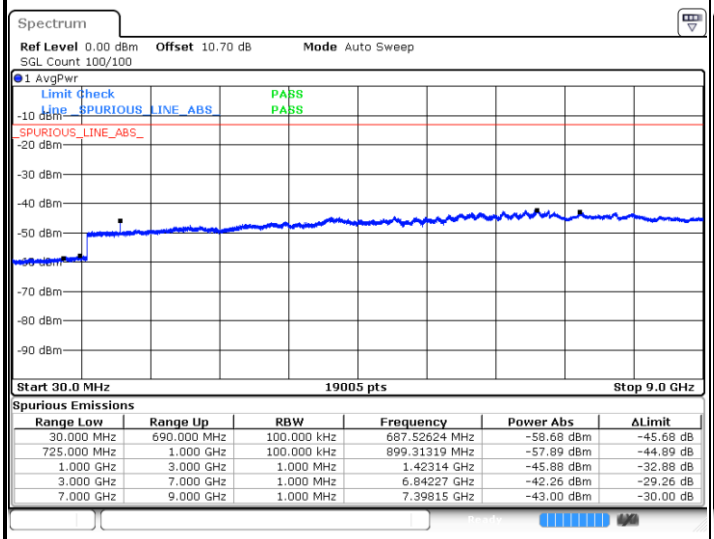
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.84558 MHz	-58.46 dBm	-45.46 dB
725.000 MHz	1.000 GHz	100.000 kHz	930.90659 MHz	-57.92 dBm	-44.92 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-46.22 dBm	-33.22 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84677 GHz	-42.18 dBm	-29.18 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85804 GHz	-43.16 dBm	-30.16 dB

Date: 3.AUG.2017 21:51:41

LTE Band 17 / 5MHz

Highest Channel / QPSK

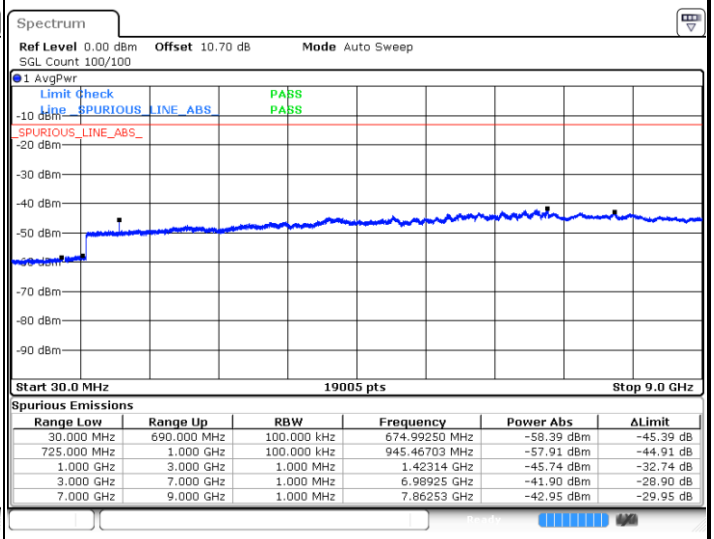


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.52624 MHz	-58.68 dBm	-45.68 dB
725.000 MHz	1.000 GHz	100.000 kHz	899.31319 MHz	-57.89 dBm	-44.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.88 dBm	-32.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84227 GHz	-42.26 dBm	-29.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.39815 GHz	-43.00 dBm	-30.00 dB

Date: 3.AUG.2017 21:57:50

Highest Channel / 16QAM



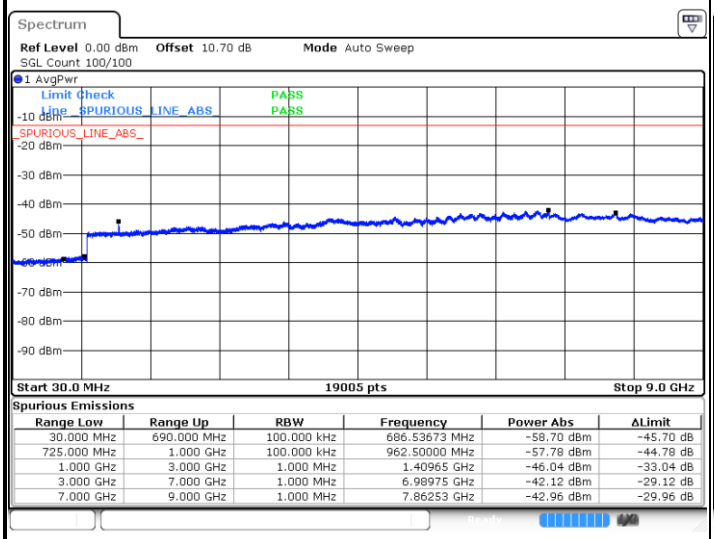
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	674.99250 MHz	-58.39 dBm	-45.39 dB
725.000 MHz	1.000 GHz	100.000 kHz	945.46703 MHz	-57.91 dBm	-44.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.74 dBm	-32.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-41.90 dBm	-28.90 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-42.95 dBm	-29.95 dB

Date: 3.AUG.2017 21:58:44

LTE Band 17 / 10MHz

Lowest Channel / QPSK

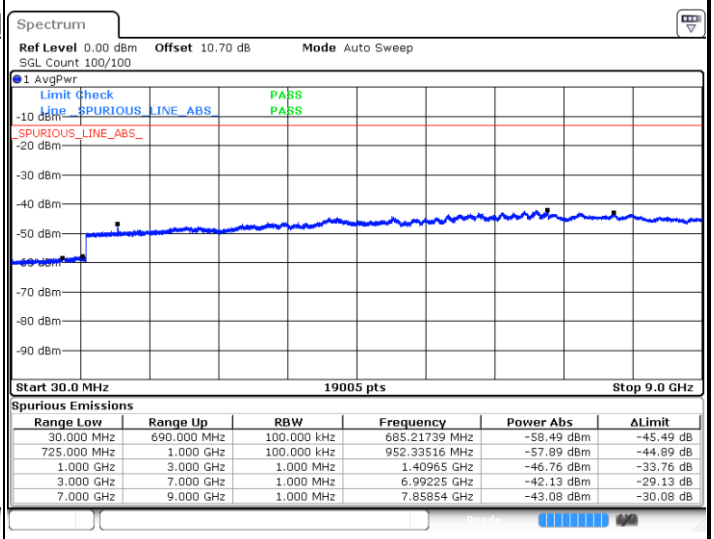


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.53673 MHz	-58.70 dBm	-45.70 dB
725.000 MHz	1.000 GHz	100.000 kHz	962.50000 MHz	-57.78 dBm	-44.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40965 GHz	-46.04 dBm	-33.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-42.12 dBm	-29.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-42.96 dBm	-29.96 dB

Date: 3.AUG.2017 22:04:52

Lowest Channel / 16QAM



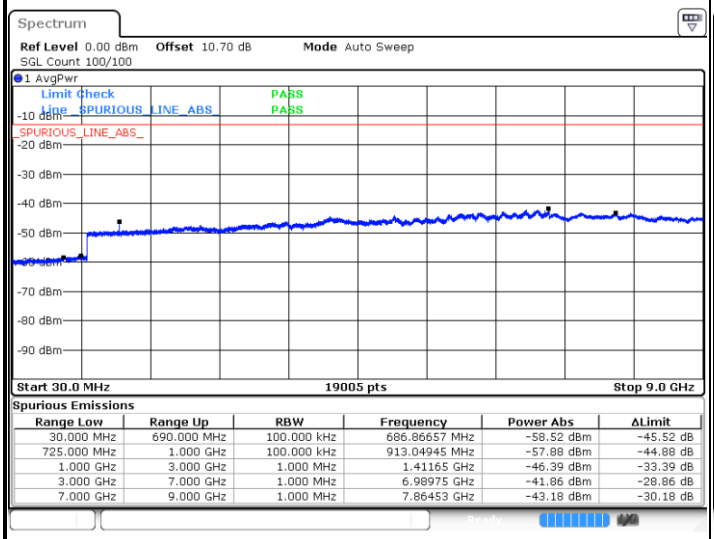
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	685.21739 MHz	-58.49 dBm	-45.49 dB
725.000 MHz	1.000 GHz	100.000 kHz	952.33516 MHz	-57.89 dBm	-44.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40965 GHz	-46.76 dBm	-33.76 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99225 GHz	-42.13 dBm	-29.13 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85854 GHz	-43.08 dBm	-30.08 dB

Date: 3.AUG.2017 22:05:46

LTE Band 17 / 10MHz

Middle Channel / QPSK

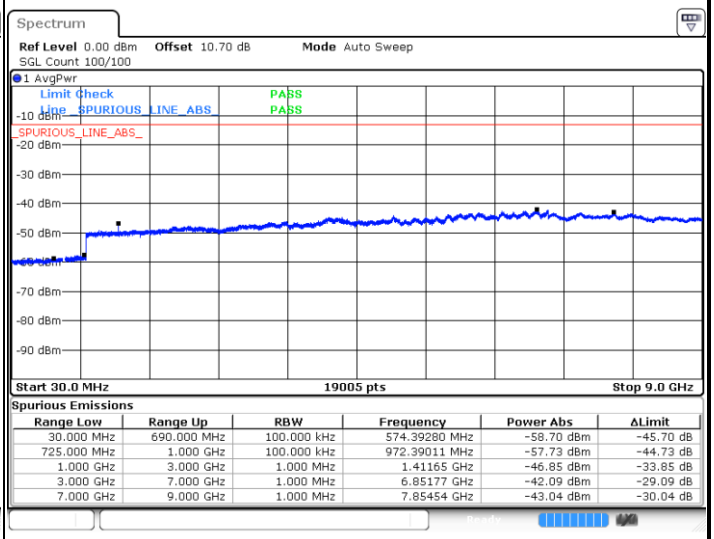


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-58.52 dBm	-45.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	913.04945 MHz	-57.88 dBm	-44.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-46.39 dBm	-33.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-41.86 dBm	-28.86 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86453 GHz	-43.18 dBm	-30.18 dB

Date: 3.AUG.2017 22:07:20

Middle Channel / 16QAM

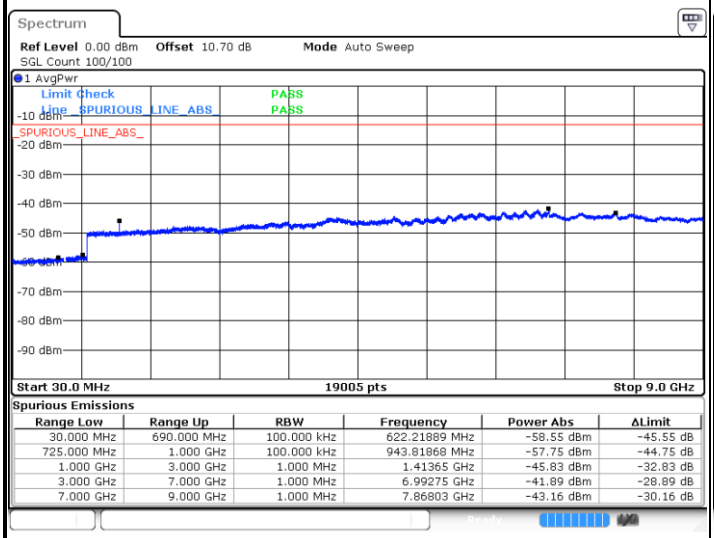


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	574.39280 MHz	-58.70 dBm	-45.70 dB
725.000 MHz	1.000 GHz	100.000 kHz	972.39011 MHz	-57.73 dBm	-44.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-46.85 dBm	-33.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85177 GHz	-42.09 dBm	-29.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85454 GHz	-43.04 dBm	-30.04 dB

Date: 3.AUG.2017 22:08:14

Highest Channel / QPSK

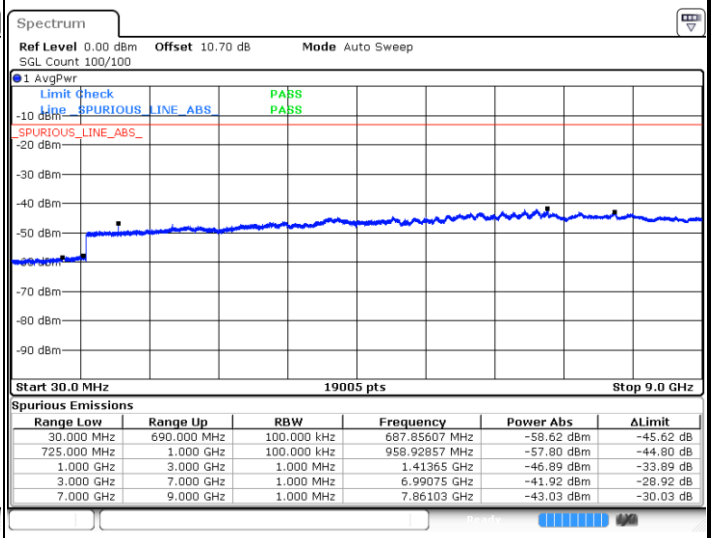


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	622.21889 MHz	-58.55 dBm	-45.55 dB
725.000 MHz	1.000 GHz	100.000 kHz	943.81868 MHz	-57.75 dBm	-44.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.83 dBm	-32.83 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99275 GHz	-41.89 dBm	-28.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86803 GHz	-43.16 dBm	-30.16 dB

Date: 4.AUG.2017 00:05:27

Highest Channel / 16QAM



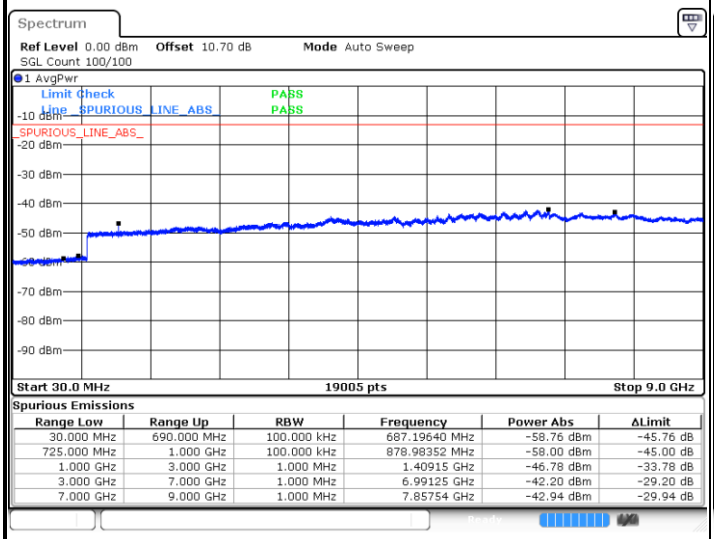
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.85607 MHz	-58.62 dBm	-45.62 dB
725.000 MHz	1.000 GHz	100.000 kHz	958.92857 MHz	-57.80 dBm	-44.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.89 dBm	-33.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99075 GHz	-41.92 dBm	-28.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86103 GHz	-43.03 dBm	-30.03 dB

Date: 4.AUG.2017 00:06:21

LTE Band 17 / 5MHz

Lowest Channel / 64QAM

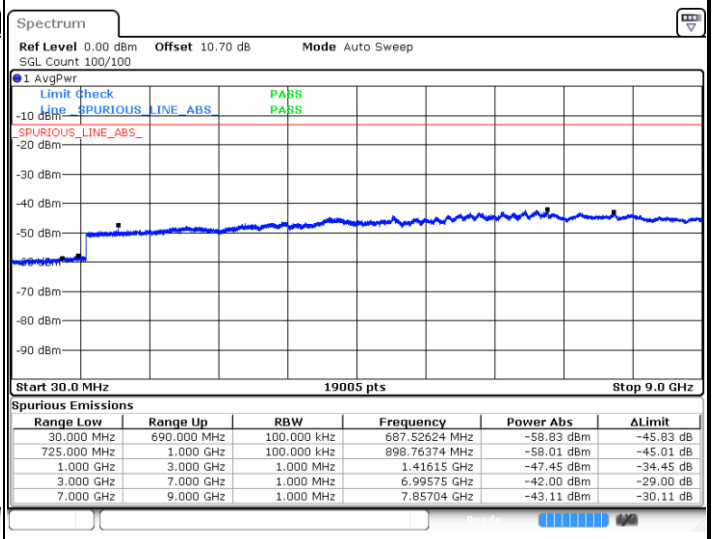


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.19640 MHz	-58.76 dBm	-45.76 dB
725.000 MHz	1.000 GHz	100.000 kHz	878.98352 MHz	-58.00 dBm	-45.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40915 GHz	-46.78 dBm	-33.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-42.20 dBm	-29.20 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85754 GHz	-42.94 dBm	-29.94 dB

Date: 6.OCT.2017 22:41:34

Middle Channel / 64QAM

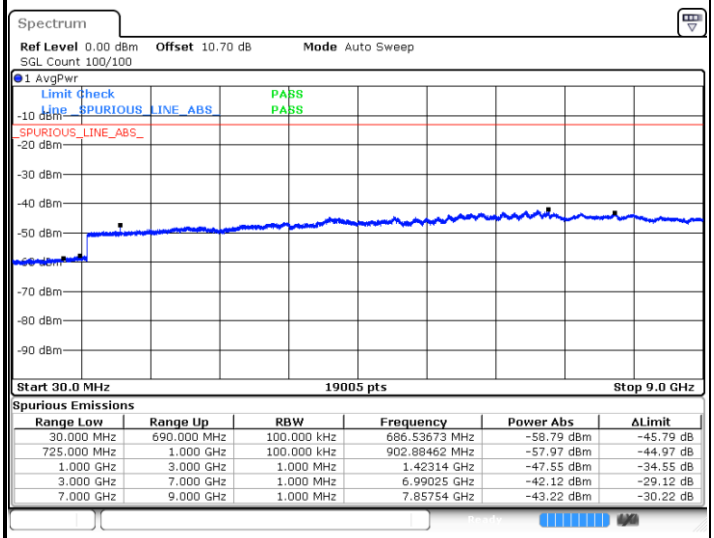


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.52624 MHz	-58.83 dBm	-45.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	898.76374 MHz	-58.01 dBm	-45.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-47.45 dBm	-34.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-42.00 dBm	-29.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85704 GHz	-43.11 dBm	-30.11 dB

Date: 6.OCT.2017 22:42:48

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.53673 MHz	-58.79 dBm	-45.79 dB
725.000 MHz	1.000 GHz	100.000 kHz	902.88462 MHz	-57.97 dBm	-44.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-47.55 dBm	-34.55 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-42.12 dBm	-29.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85754 GHz	-43.22 dBm	-30.22 dB

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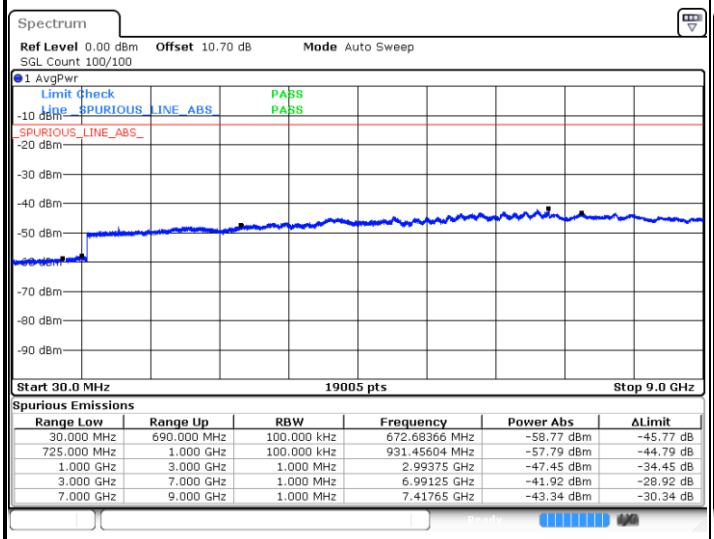
LTE Band 17 / 10MHz

Lowest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	672.68366 MHz	-58.77 dBm	-45.77 dB
725.000 MHz	1.000 GHz	100.000 kHz	931.45604 MHz	-57.79 dBm	-44.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99375 GHz	-47.45 dBm	-34.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-41.92 dBm	-28.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41765 GHz	-43.34 dBm	-30.34 dB

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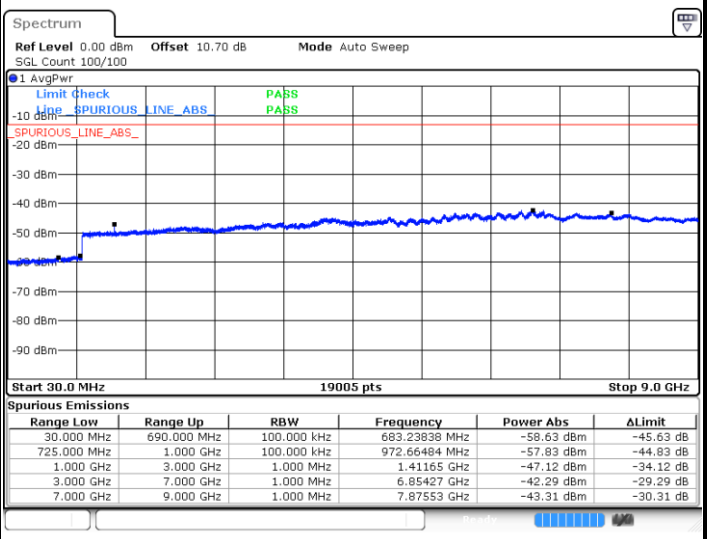
Middle Channel / 64QAM

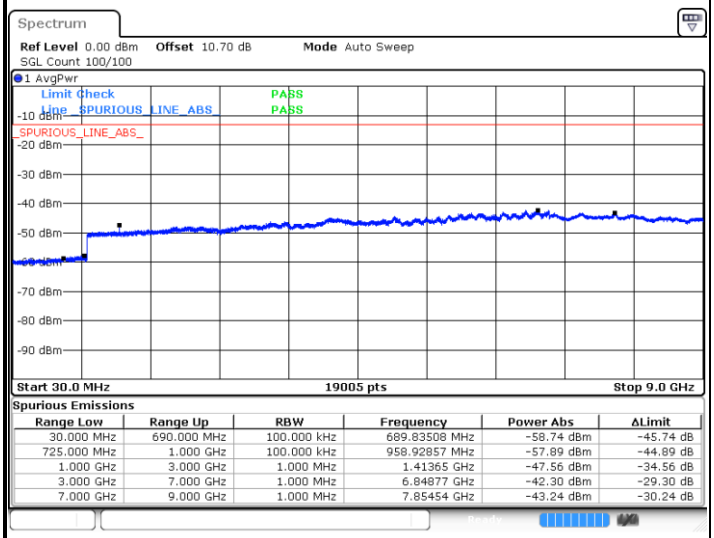


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.23838 MHz	-58.63 dBm	-45.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	972.66484 MHz	-57.83 dBm	-44.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-47.12 dBm	-34.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85427 GHz	-42.29 dBm	-29.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.87553 GHz	-43.31 dBm	-30.31 dB

Date: 6.OCT.2017 22:51:04

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-58.74 dBm	-45.74 dB
725.000 MHz	1.000 GHz	100.000 kHz	958.92857 MHz	-57.89 dBm	-44.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-47.56 dBm	-34.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84877 GHz	-42.30 dBm	-29.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85454 GHz	-43.24 dBm	-30.24 dB

Date: 6.OCT.2017 22:54:35

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0065	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0097	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

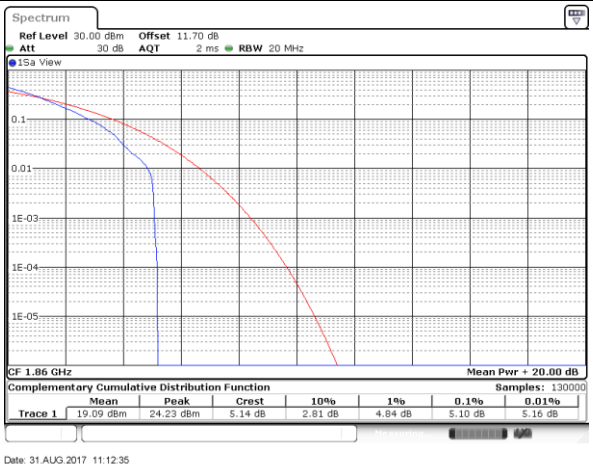
LTE Band 25

Peak-to-Average Ratio

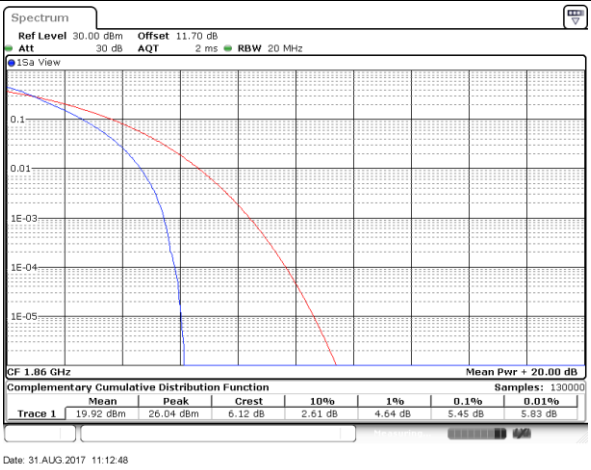
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.1	5.45	5.45	6.43	PASS
Middle CH	5.59	5.3	6.46	6.49	
Highest CH	4.84	5.25	5.88	6.38	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.74	6.38	-	-	PASS
Middle CH	6.26	6.67	-	-	
Highest CH	6.32	6.46	-	-	

LTE Band 25 / 20MHz / QPSK

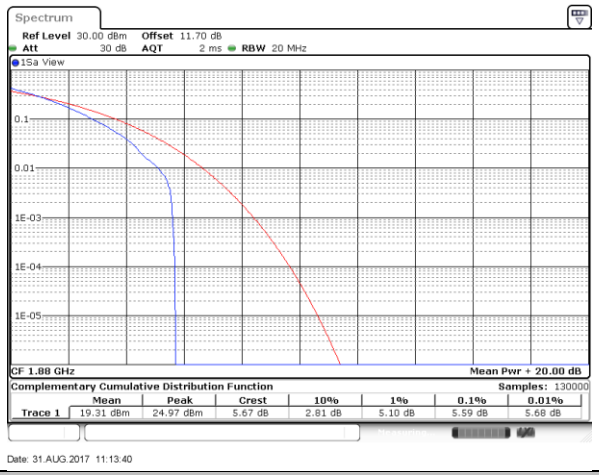
Lowest Channel / 1RB



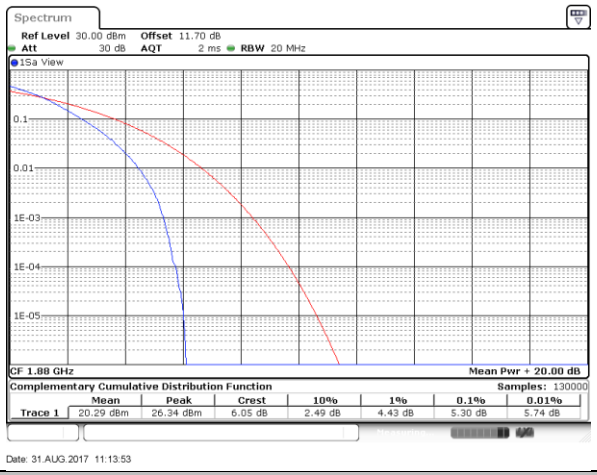
Lowest Channel / Full RB



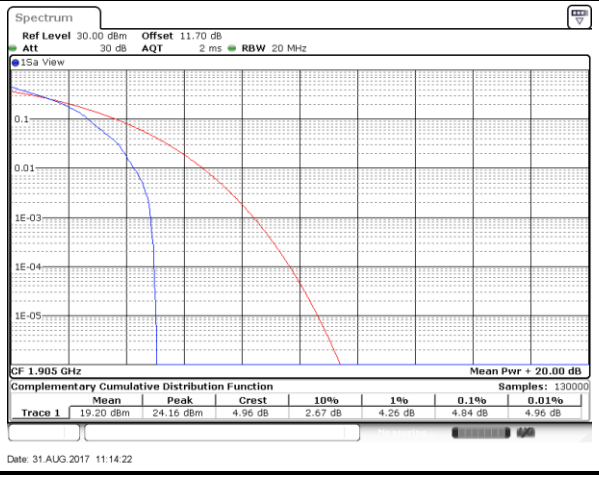
Middle Channel / 1RB



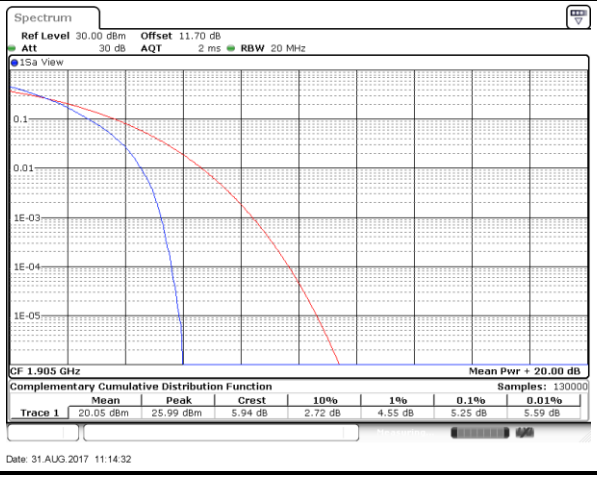
Middle Channel / Full RB



Highest Channel / 1RB

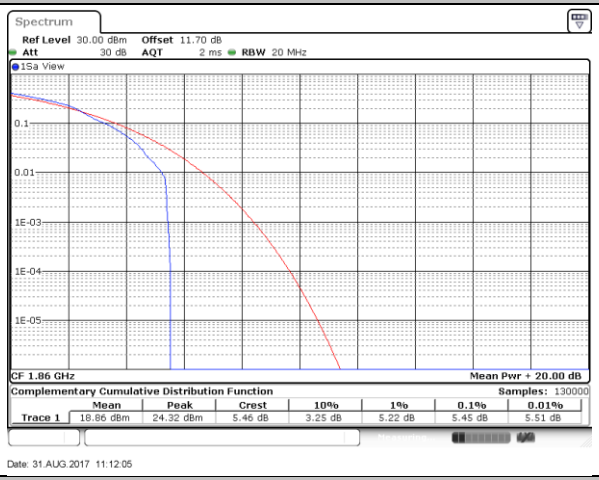


Highest Channel / Full RB

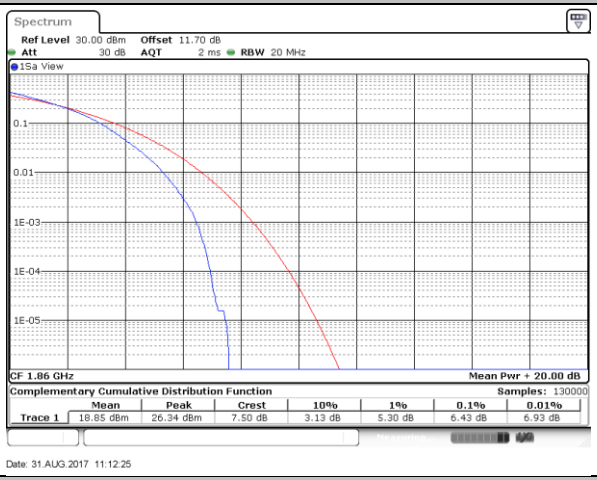


LTE Band 25 / 20MHz / 16QAM

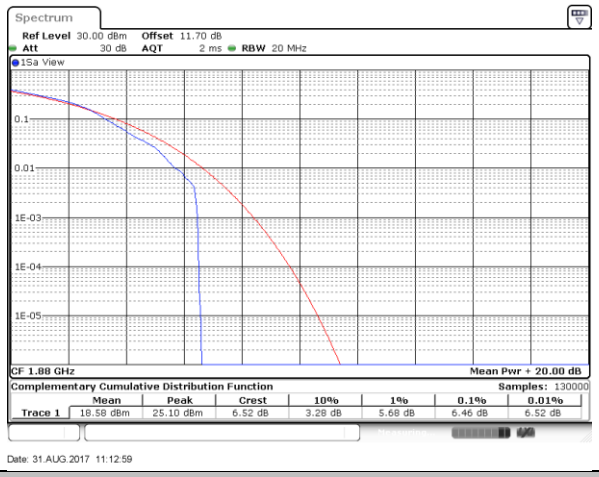
Lowest Channel / 1RB



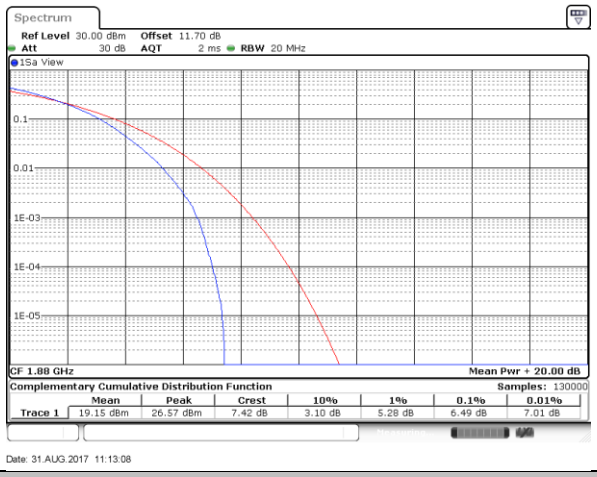
Lowest Channel / Full RB



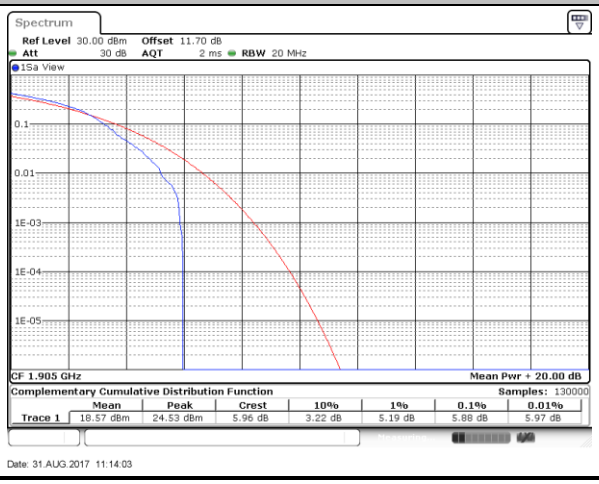
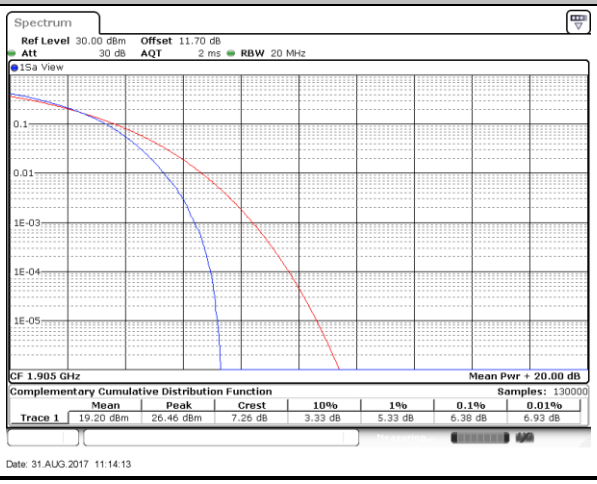
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB