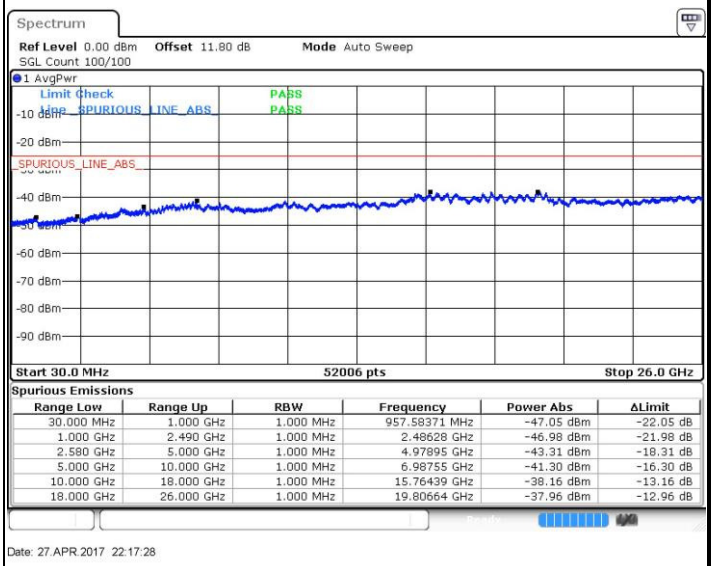
LTE Band 7 / 20MHz	
	Middle Channel / 64QAM

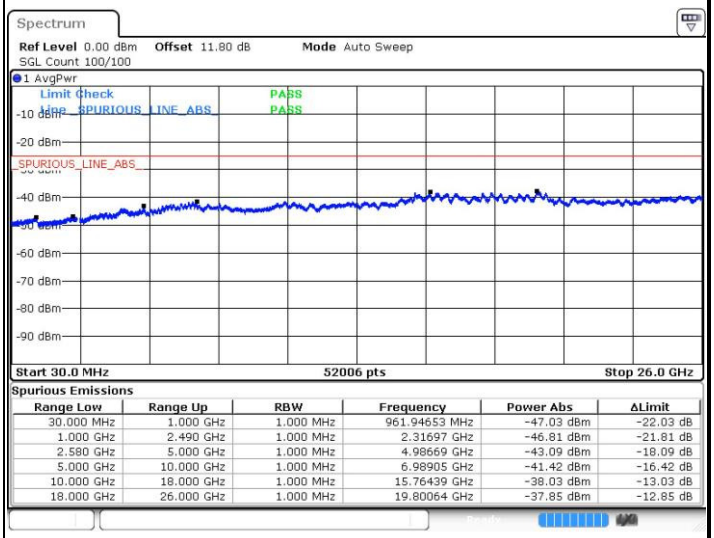


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	957.58371 MHz	-47.05 dBm	-22.05 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48628 GHz	-46.98 dBm	-21.98 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.97895 GHz	-43.31 dBm	-18.31 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.98755 GHz	-41.30 dBm	-16.30 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.76439 GHz	-38.16 dBm	-13.16 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.80664 GHz	-37.96 dBm	-12.96 dB

Date: 27.APR.2017 22:17:28

	Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	961.94653 MHz	-47.03 dBm	-22.03 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.31697 GHz	-46.81 dBm	-21.81 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.98669 GHz	-43.09 dBm	-18.09 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.98905 GHz	-41.42 dBm	-16.42 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.76439 GHz	-38.03 dBm	-13.03 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.80064 GHz	-37.85 dBm	-12.85 dB

Date: 27.APR.2017 22:21:02

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0122	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0123	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0119	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

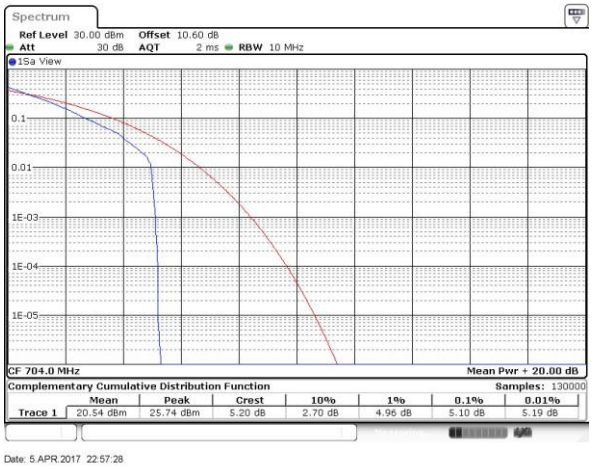
LTE Band 12

Peak-to-Average Ratio

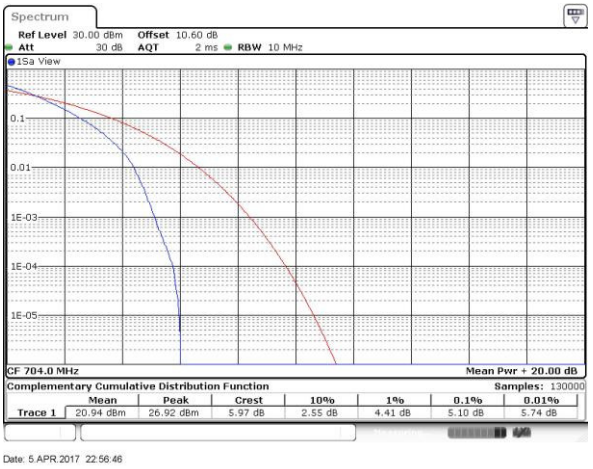
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.1	5.1	5.51	5.97	PASS
Middle CH	5.25	4.9	6.17	5.83	
Highest CH	4.29	5.22	5.25	6	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.83	6	PASS
Middle CH	-	-	5.97	5.97	
Highest CH	-	-	5.28	6.03	

LTE Band 12 / 10MHz / QPSK

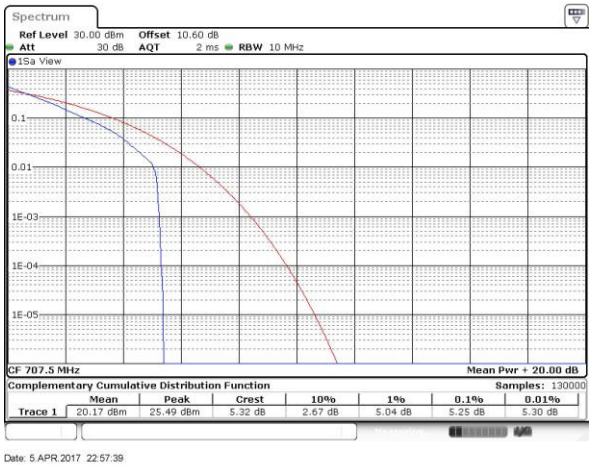
Lowest Channel / 1RB



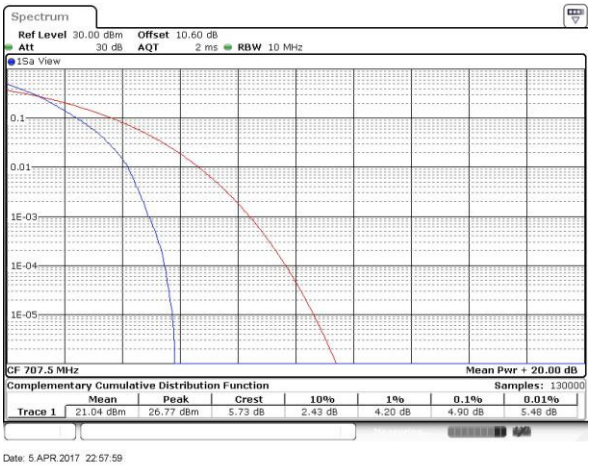
Lowest Channel / Full RB



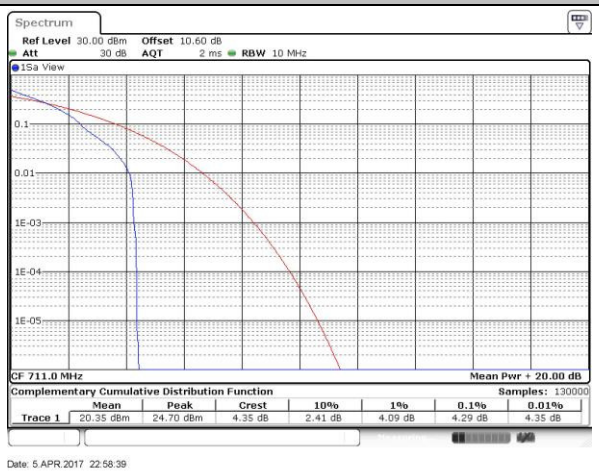
Middle Channel / 1RB



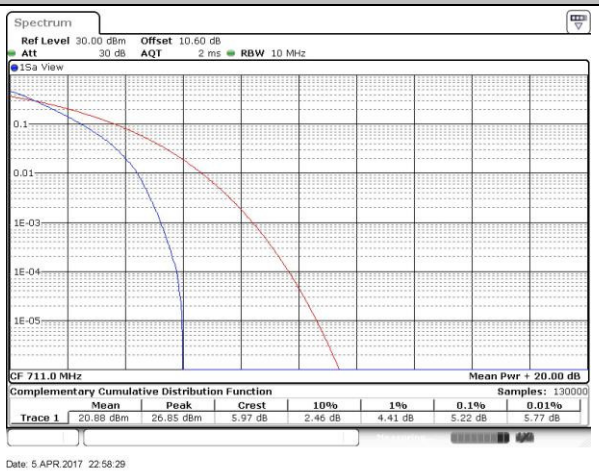
Middle Channel / Full RB



Highest Channel / 1RB

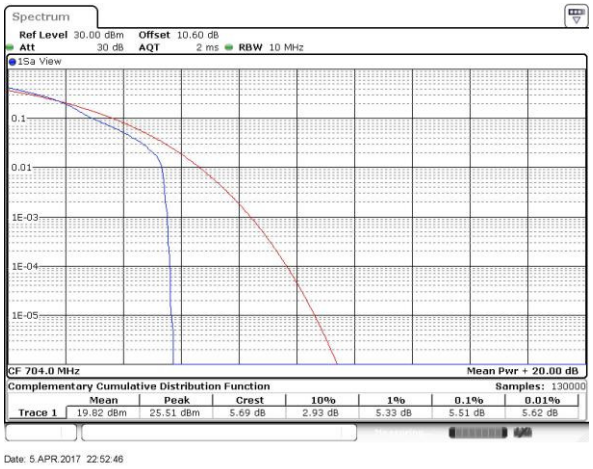


Highest Channel / Full RB

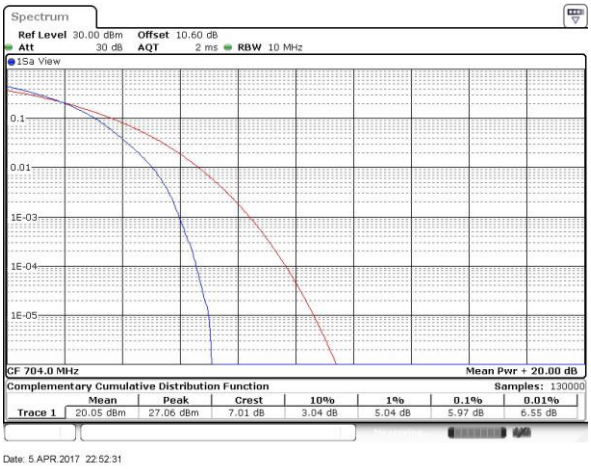


LTE Band 12 / 10MHz / 16QAM

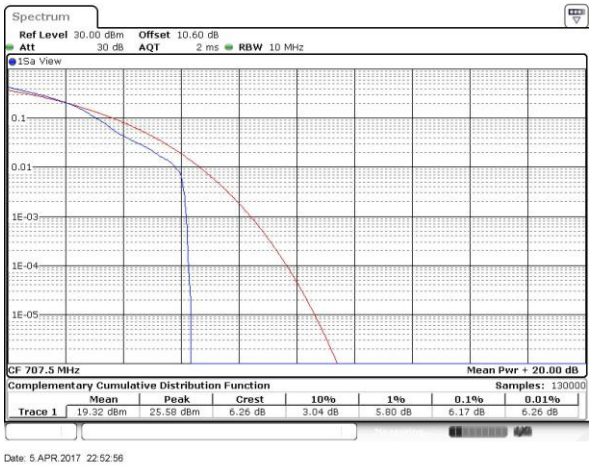
Lowest Channel / 1RB



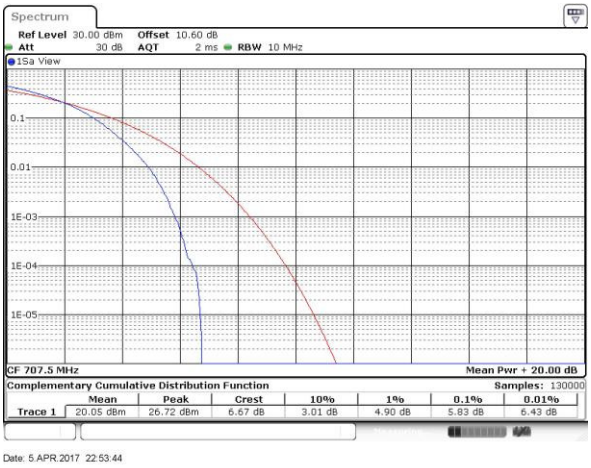
Lowest Channel / Full RB



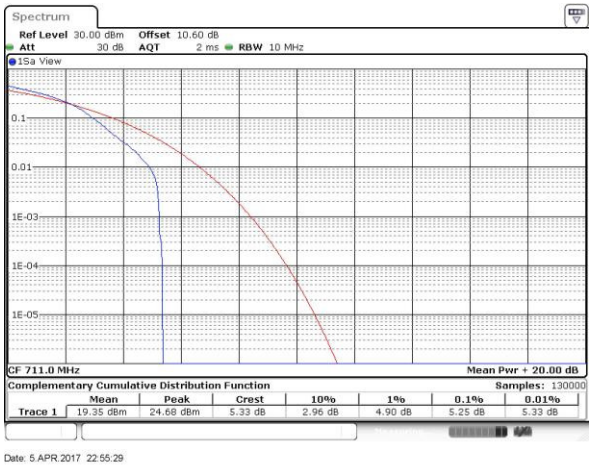
Middle Channel / 1RB



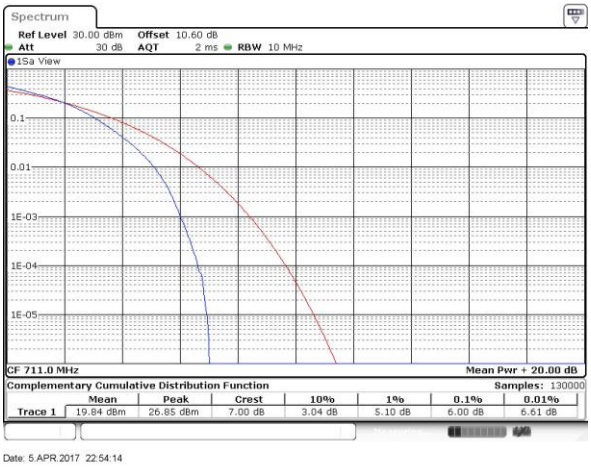
Middle Channel / Full RB



Highest Channel / 1RB

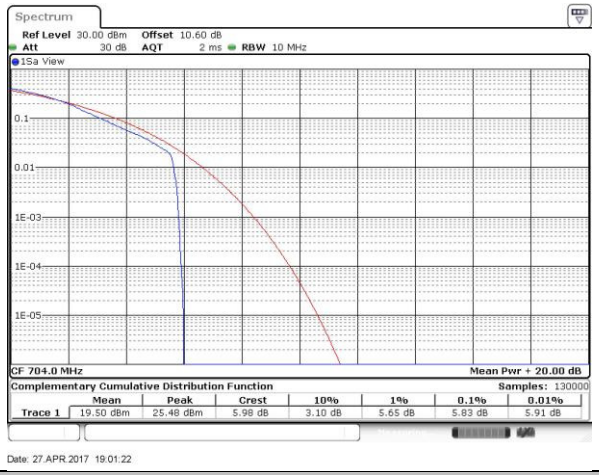


Highest Channel / Full RB

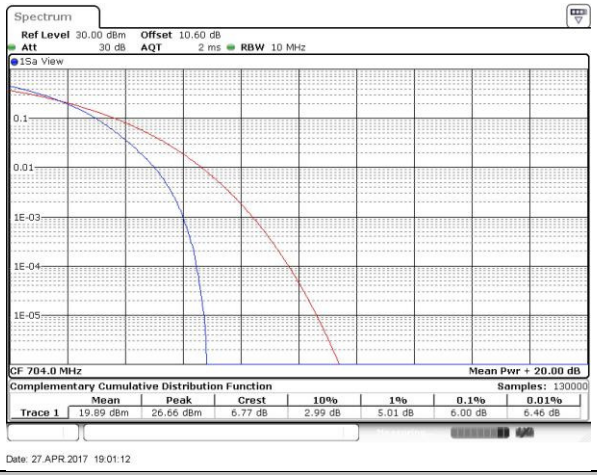


LTE Band 12 / 10MHz / 64QAM

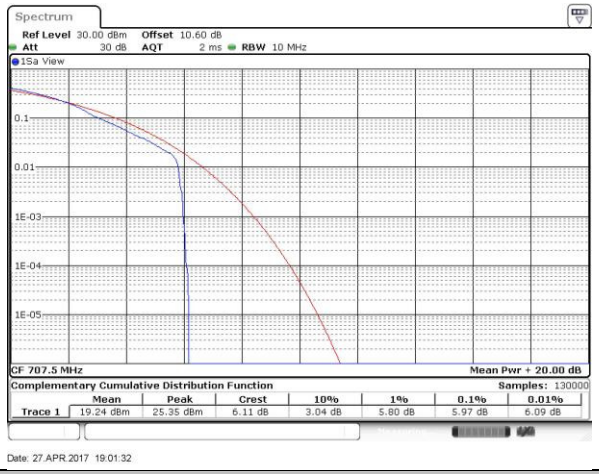
Lowest Channel / 1RB



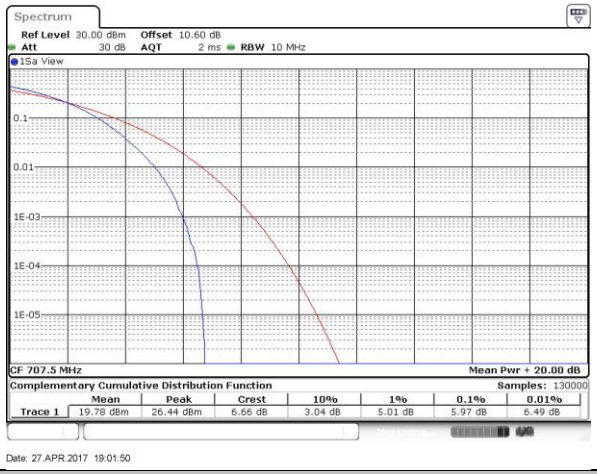
Lowest Channel / Full RB



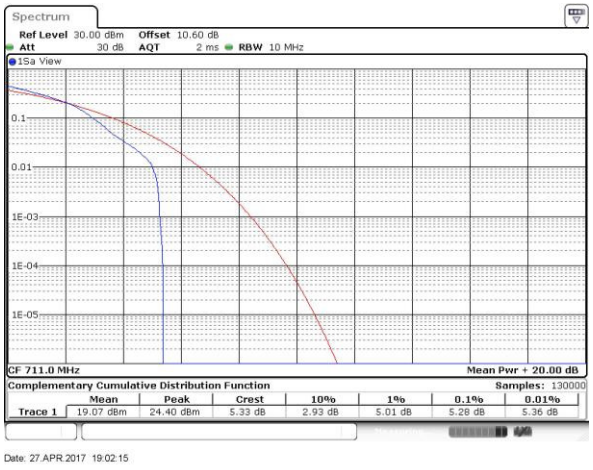
Middle Channel / 1RB



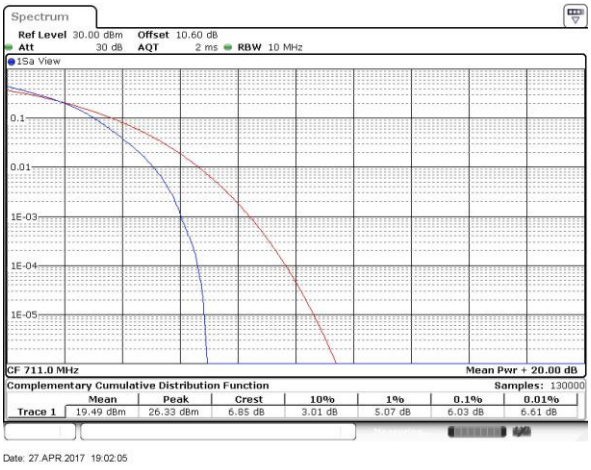
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

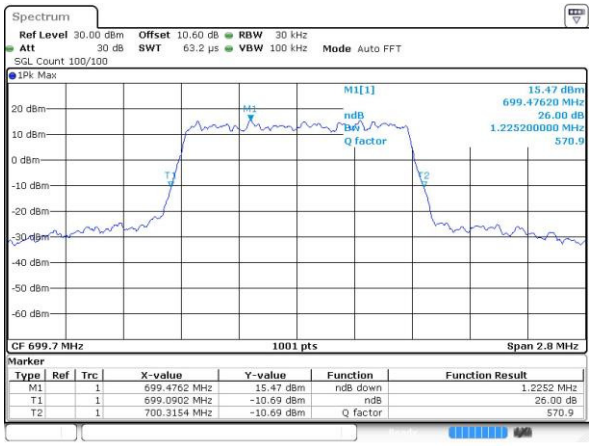


26dB Bandwidth

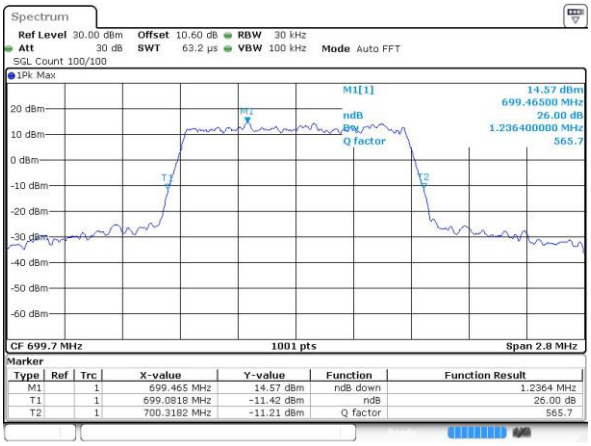
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.24	2.99	3.02	4.96	4.89	9.79	9.79	-	-	-	-
Middle CH	1.23	1.23	3.03	3.02	4.87	4.92	9.87	9.71	-	-	-	-
Highest CH	1.24	1.23	3.00	3.03	4.97	4.88	9.81	9.77	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	1.24	-	3.01	-	4.87	-	9.71	-	-	-	-
Middle CH	-	1.21	-	3.02	-	4.80	-	9.73	-	-	-	-
Highest CH	-	1.22	-	3.00	-	4.90	-	9.65	-	-	-	-

LTE Band 12

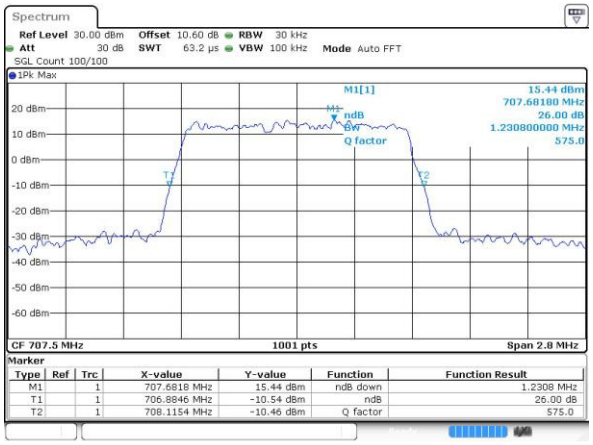
Lowest Channel / 1.4MHz / QPSK



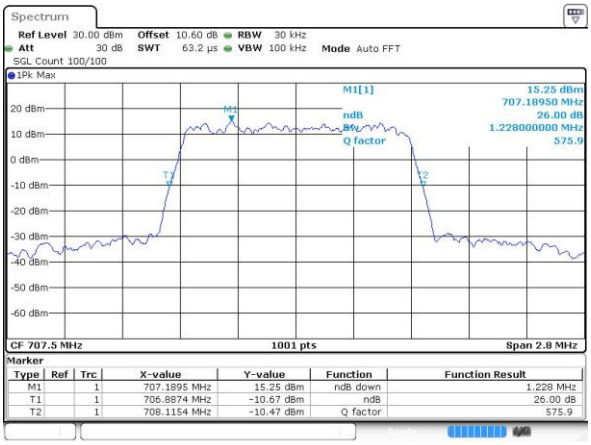
Lowest Channel / 1.4MHz / 16QAM



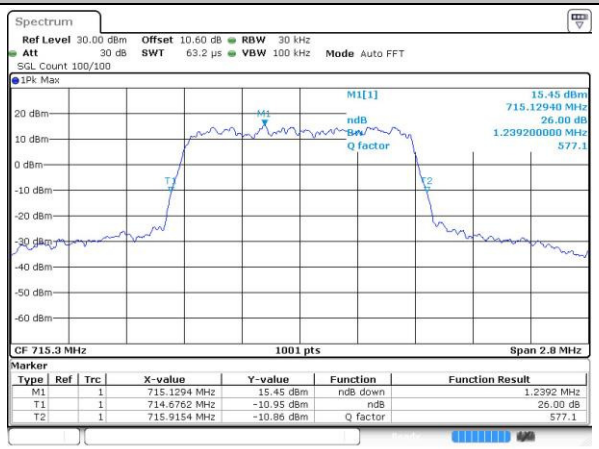
Middle Channel / 1.4MHz / QPSK



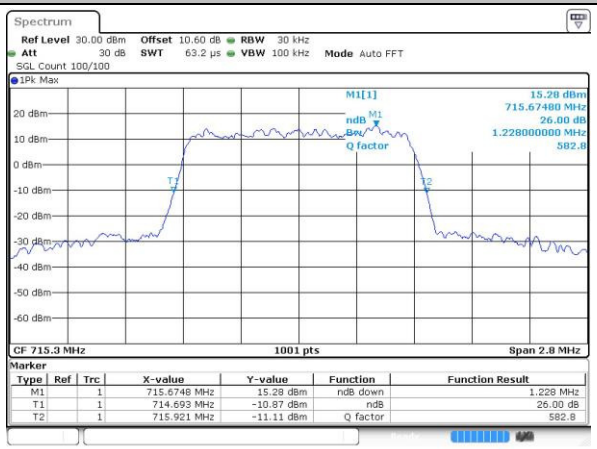
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

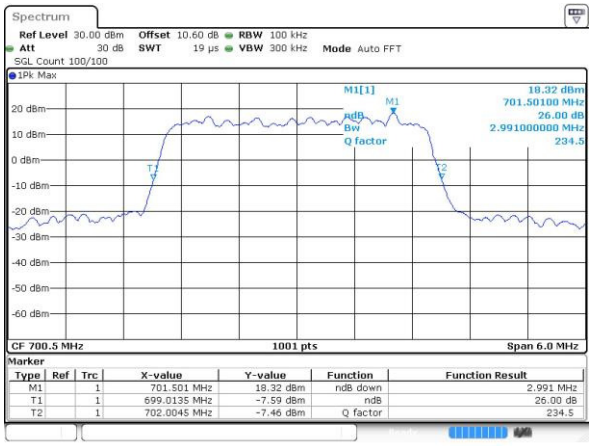


Highest Channel / 1.4MHz / 16QAM

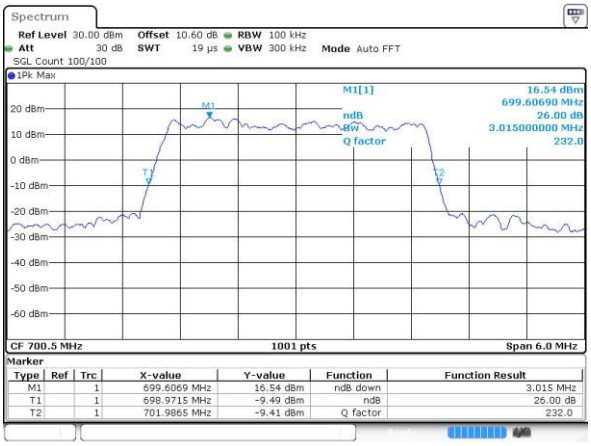


LTE Band 12

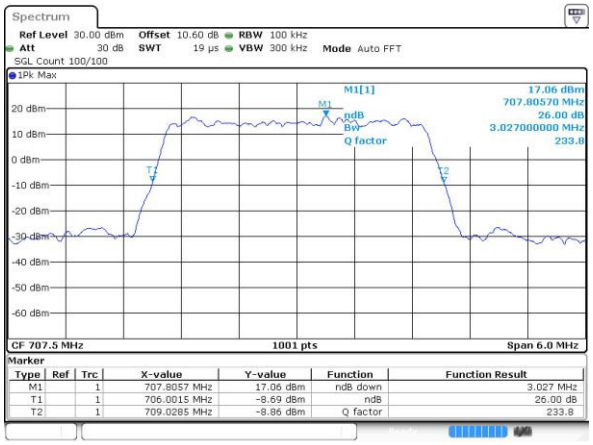
Lowest Channel / 3MHz / QPSK



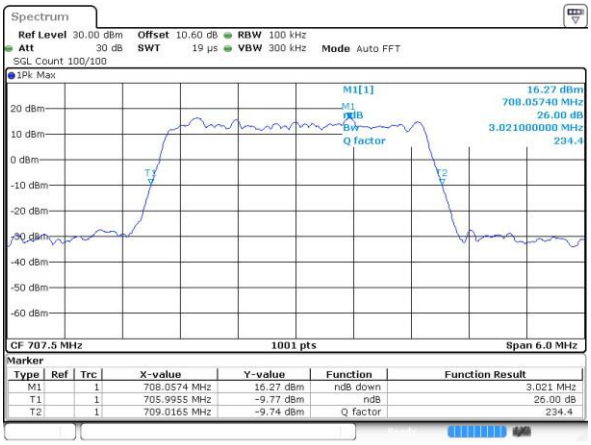
Lowest Channel / 3MHz / 16QAM



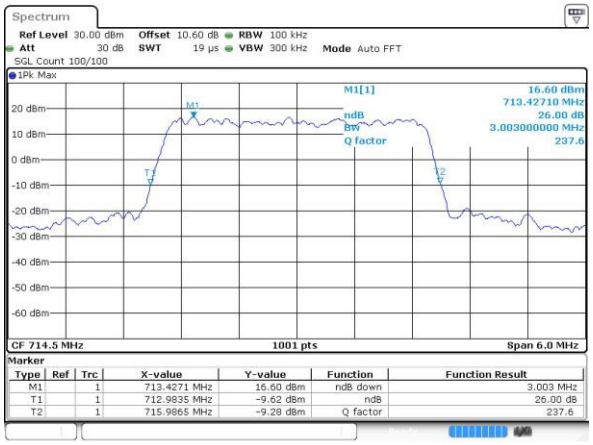
Middle Channel / 3MHz / QPSK



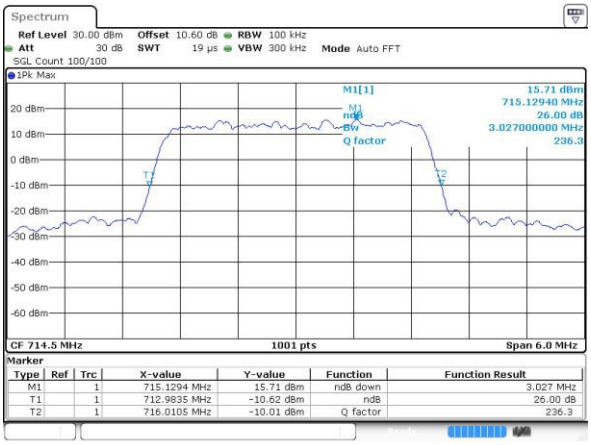
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

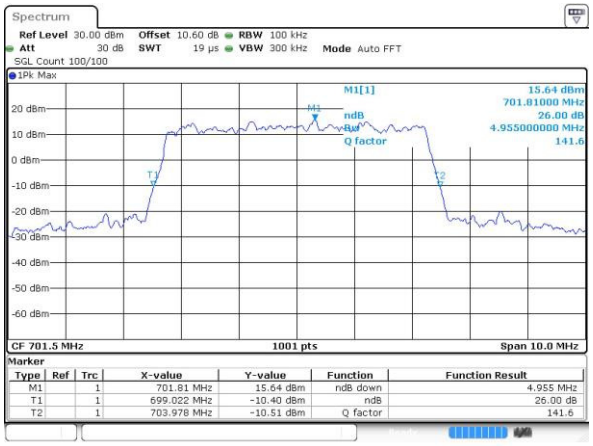


Highest Channel /3MHz / 16QAM

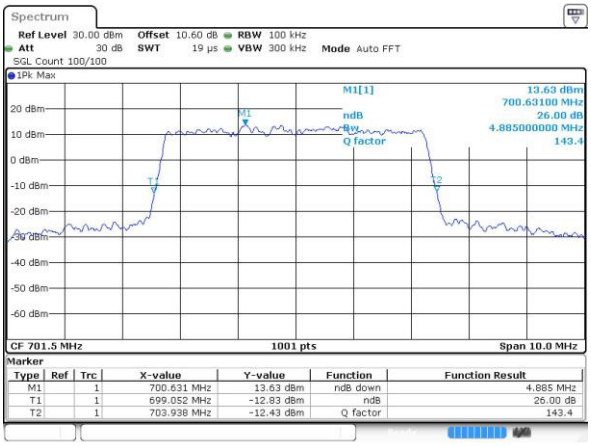


LTE Band 12

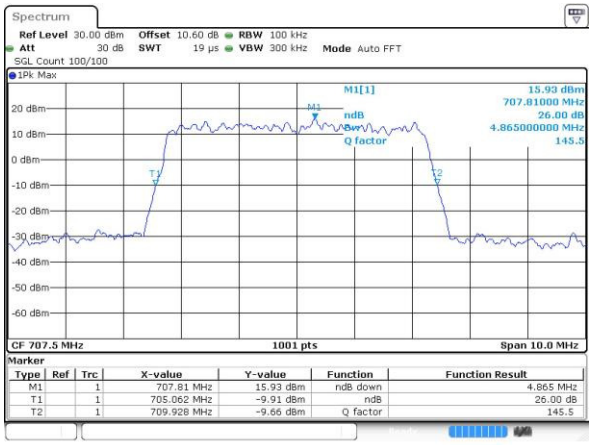
Lowest Channel / 5MHz / QPSK



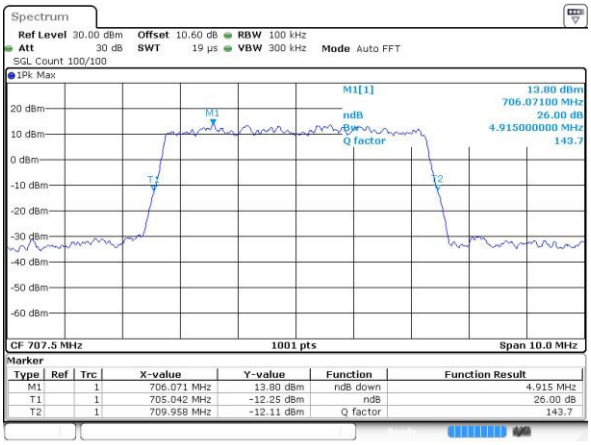
Lowest Channel / 5MHz / 16QAM



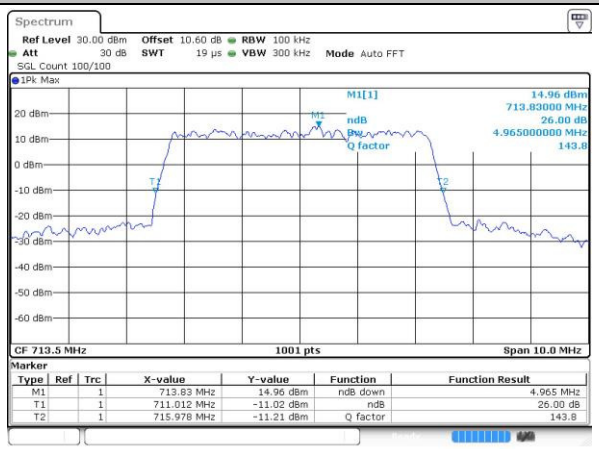
Middle Channel / 5MHz / QPSK



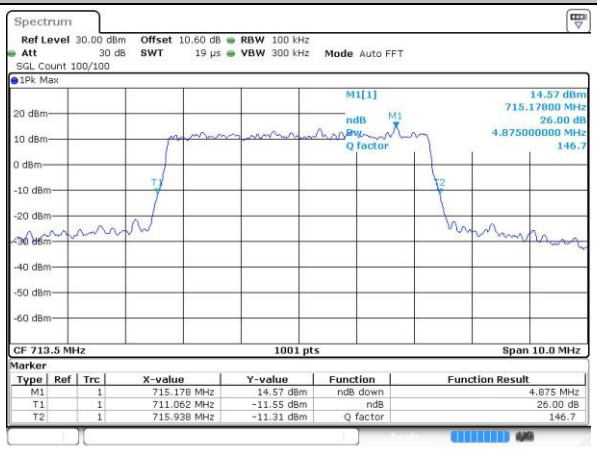
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

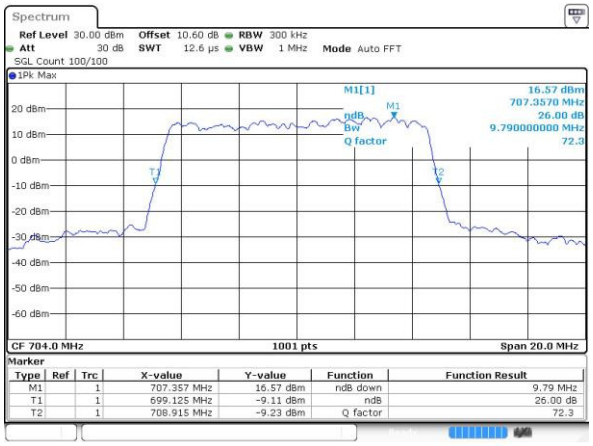


Highest Channel / 5MHz / 16QAM

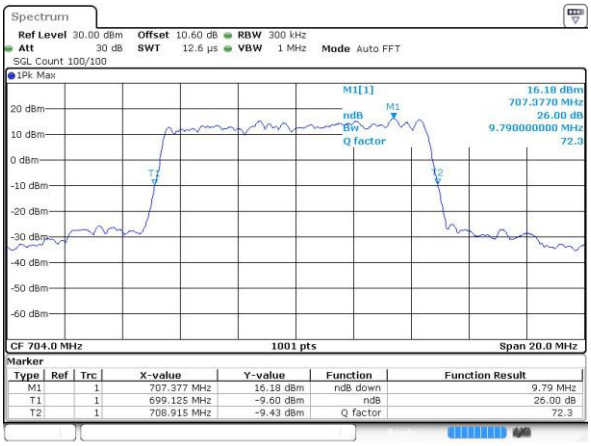


LTE Band 12

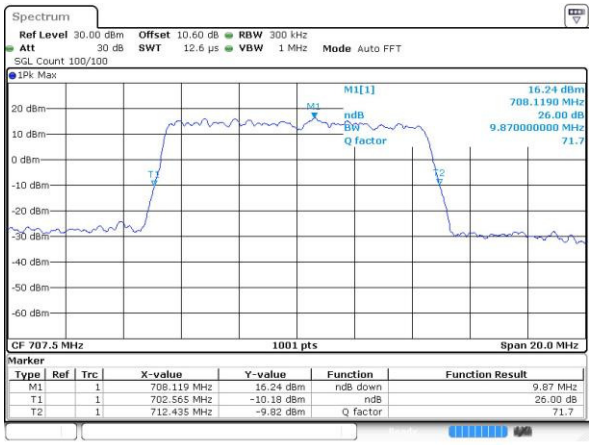
Lowest Channel / 10MHz / QPSK



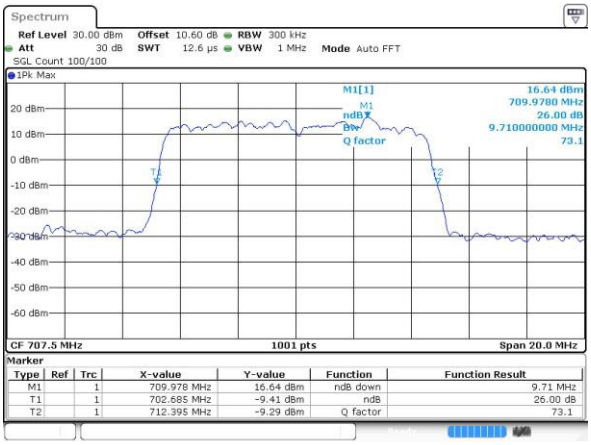
Lowest Channel / 10MHz / 16QAM



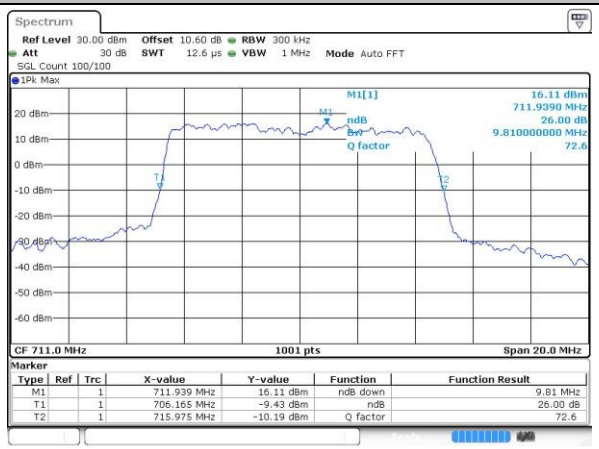
Middle Channel / 10MHz / QPSK



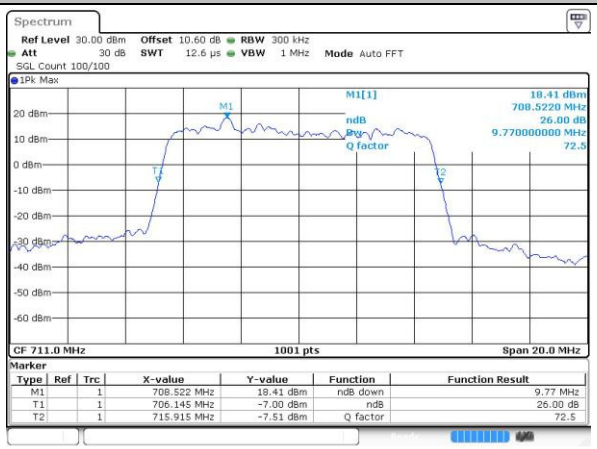
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

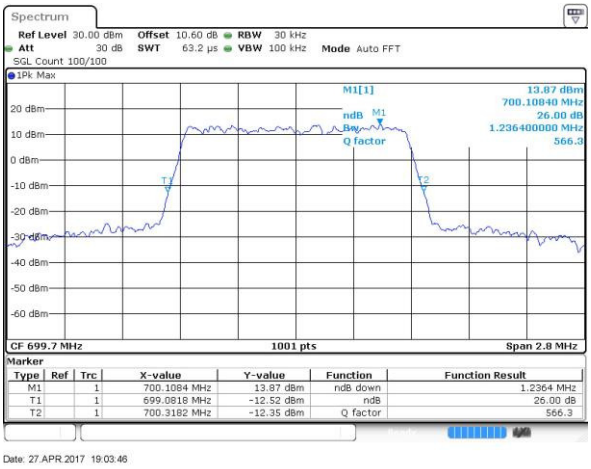


Highest Channel / 10MHz / 16QAM

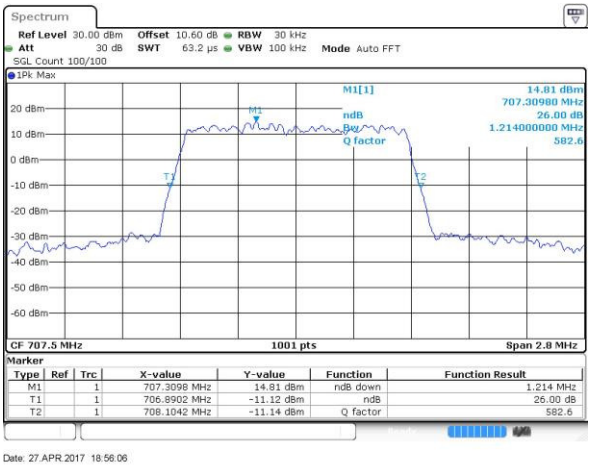


LTE Band 12

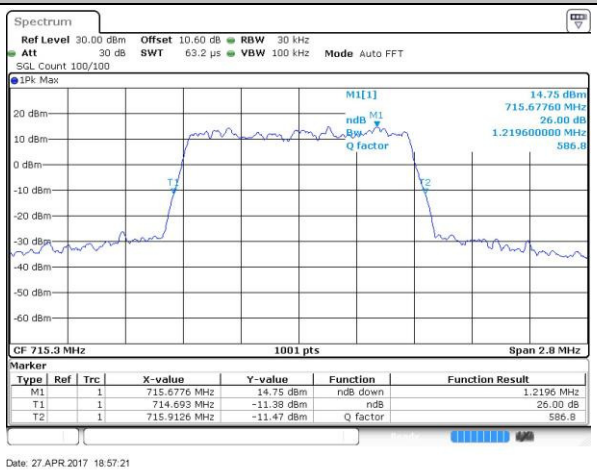
Lowest Channel / 1.4MHz / 64QAM

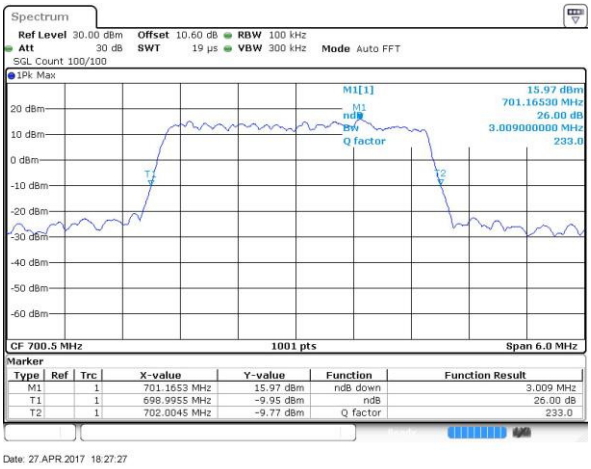
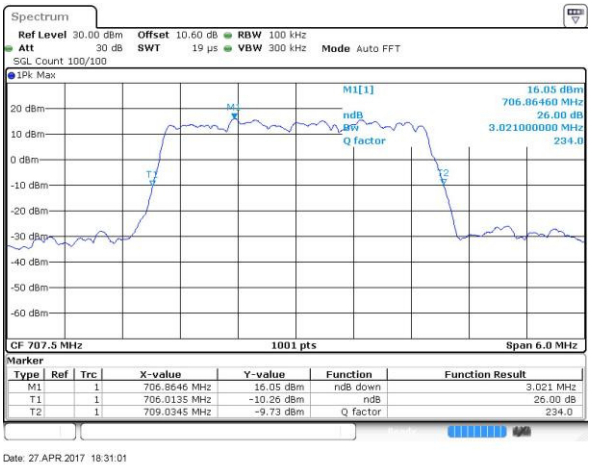
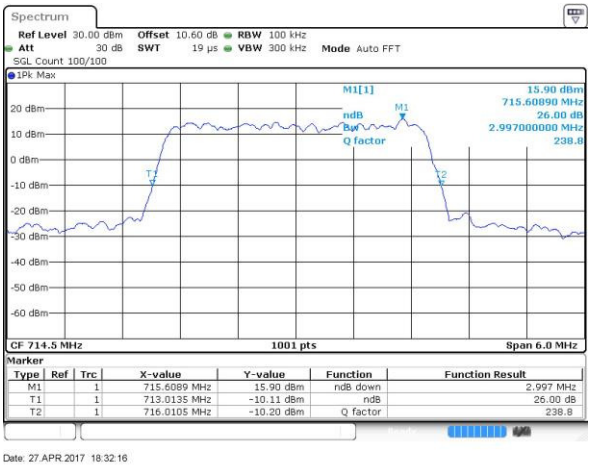


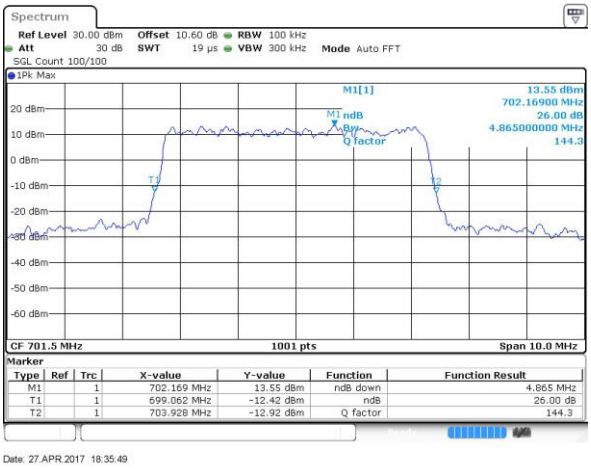
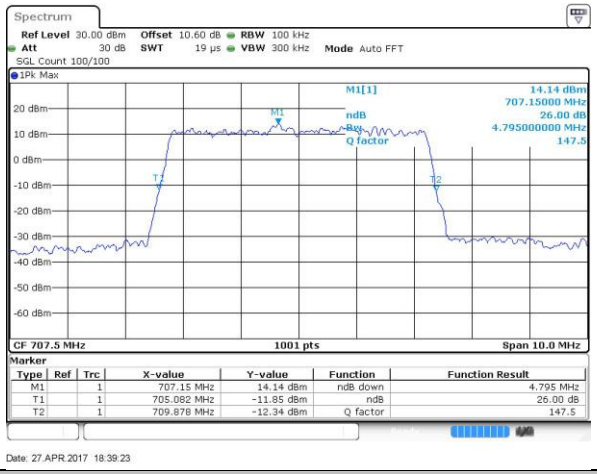
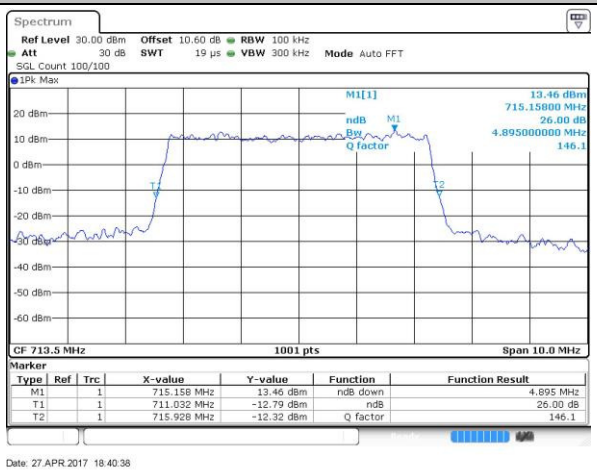
Middle Channel / 1.4MHz / 64QAM

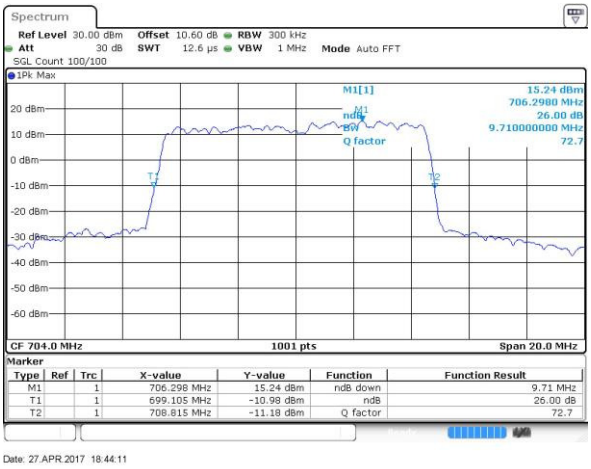
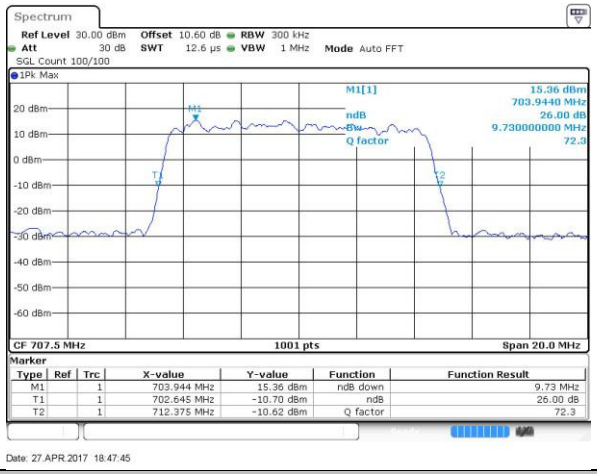
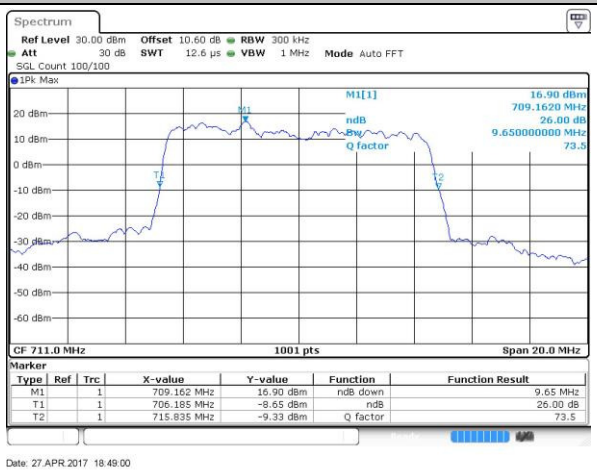


Highest Channel / 1.4MHz / 64QAM



LTE Band 12	
	Lowest Channel / 3MHz / 64QAM
	
	Middle Channel /3MHz / 64QAM
	
	Highest Channel /3MHz / 64QAM
	

LTE Band 12	
	Lowest Channel / 5MHz / 64QAM
	
	Middle Channel / 5MHz / 64QAM
	
	Highest Channel / 5MHz / 64QAM
	

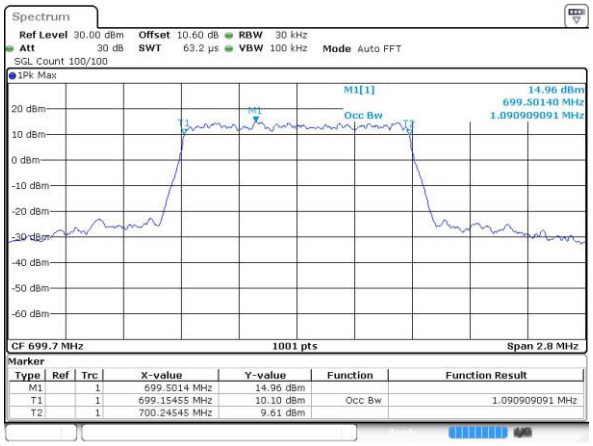
LTE Band 12	
	Lowest Channel / 10MHz / 64QAM
	
	Middle Channel / 10MHz / 64QAM
	
	Highest Channel / 10MHz / 64QAM
	

Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.71	4.49	4.49	9.09	8.99	-	-	-	-
Middle CH	1.08	1.09	2.72	2.71	4.48	4.47	8.99	8.97	-	-	-	-
Highest CH	1.09	1.09	2.72	2.73	4.49	4.48	9.03	9.03	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	1.09	-	2.7	-	4.49	-	9.01	-	-	-	-
Middle CH	-	1.09	-	2.73	-	4.48	-	9.01	-	-	-	-
Highest CH	-	1.09	-	2.71	-	4.48	-	9.07	-	-	-	-

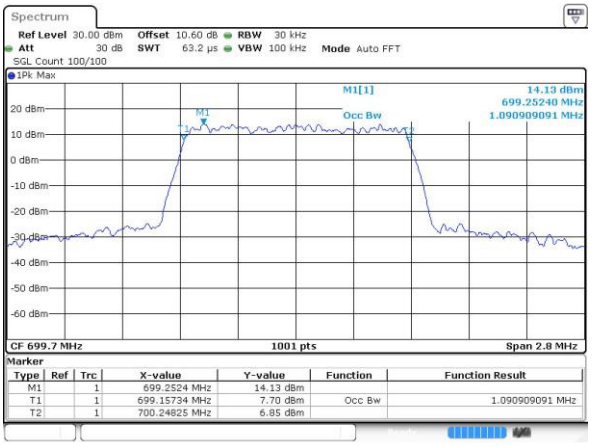
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



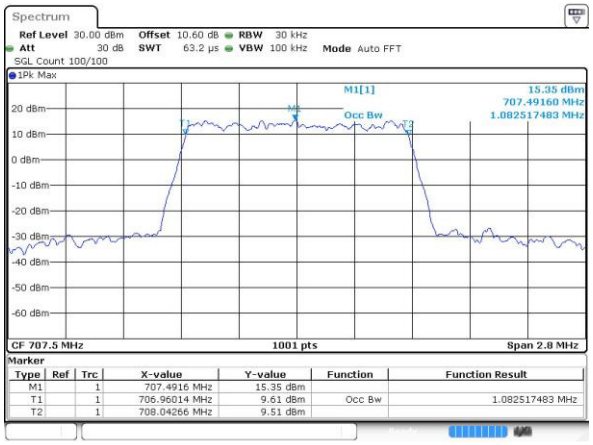
Date: 5.APR.2017 22:35:17

Lowest Channel / 1.4MHz / 16QAM



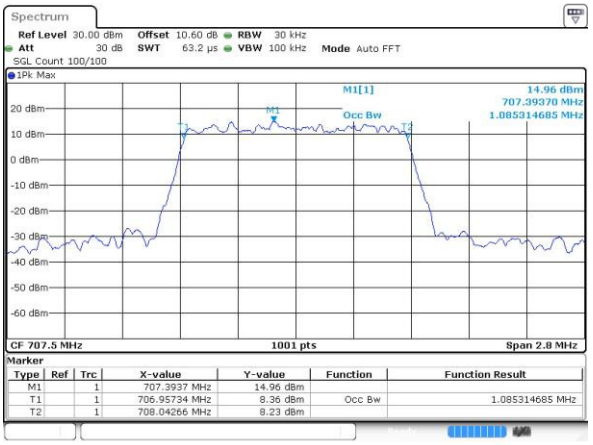
Date: 5.APR.2017 22:35:28

Middle Channel / 1.4MHz / QPSK



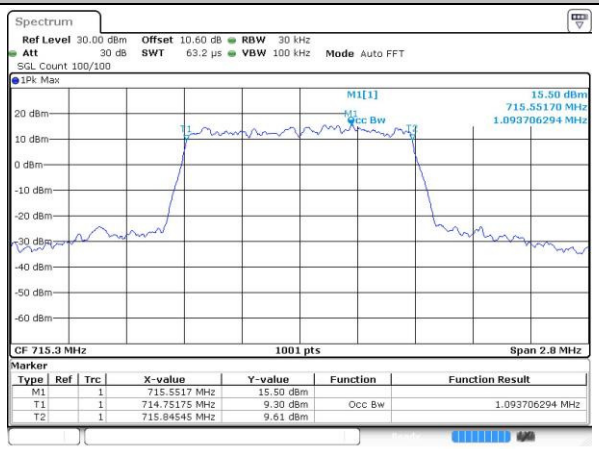
Date: 5.APR.2017 22:42:34

Middle Channel / 1.4MHz / 16QAM



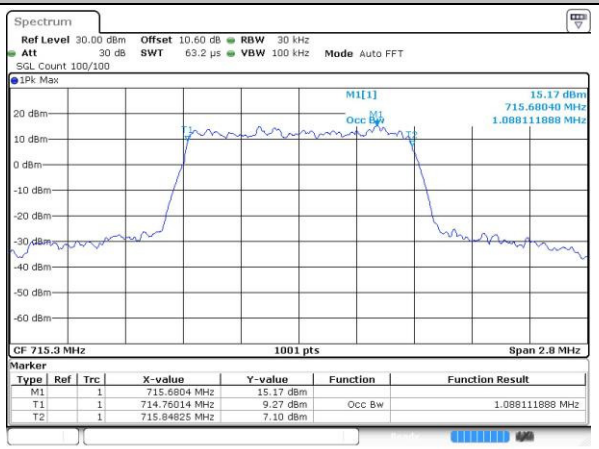
Date: 5.APR.2017 22:42:24

Highest Channel / 1.4MHz / QPSK



Date: 5.APR.2017 22:44:54

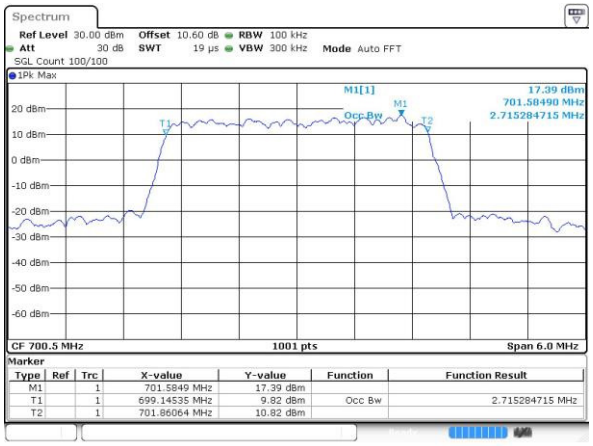
Highest Channel / 1.4MHz / 16QAM



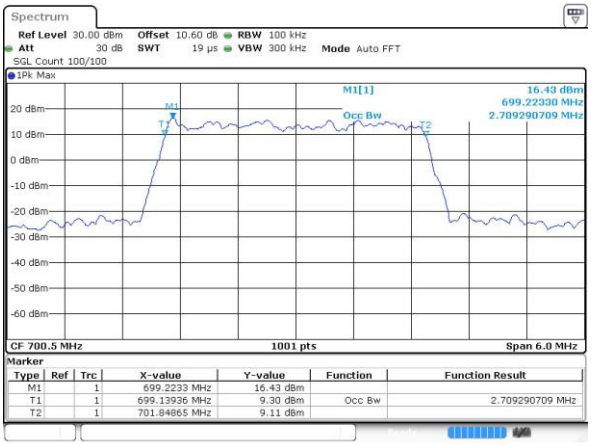
Date: 5.APR.2017 22:45:04

LTE Band 12

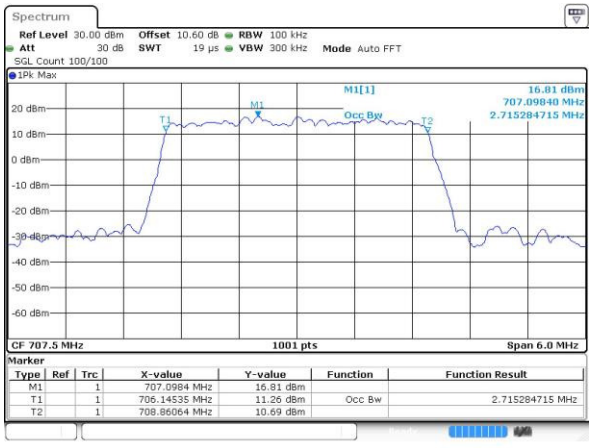
Lowest Channel / 3MHz / QPSK



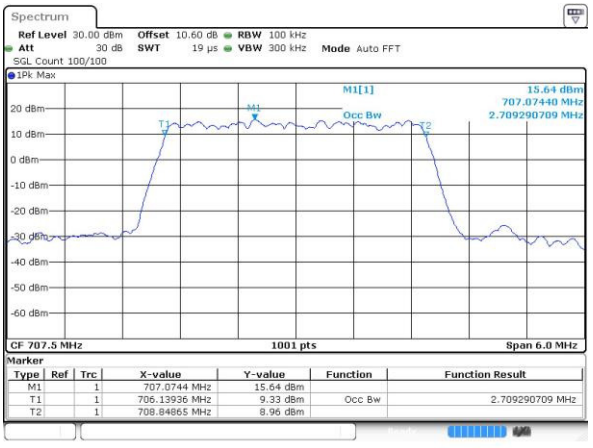
Lowest Channel / 3MHz / 16QAM



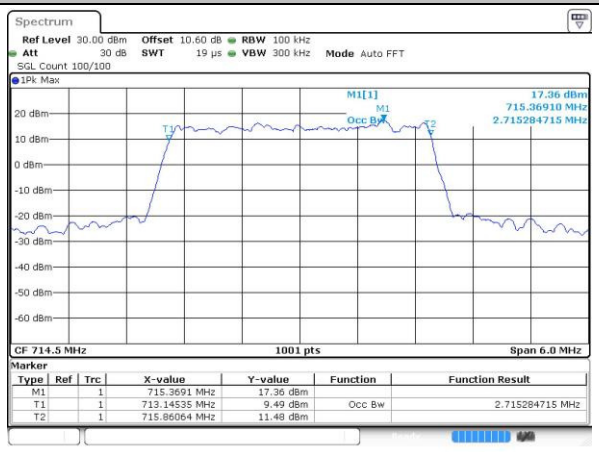
Middle Channel / 3MHz / QPSK



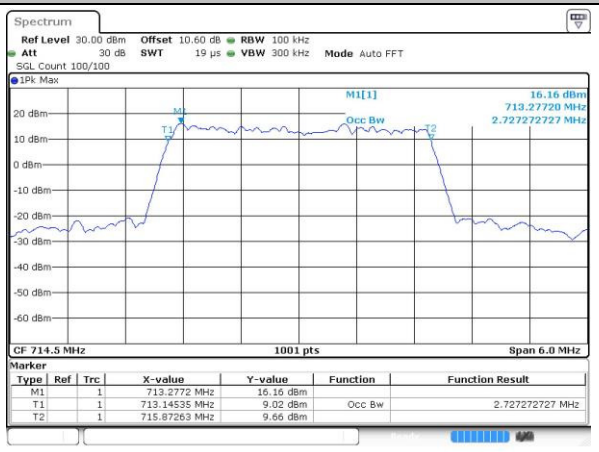
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

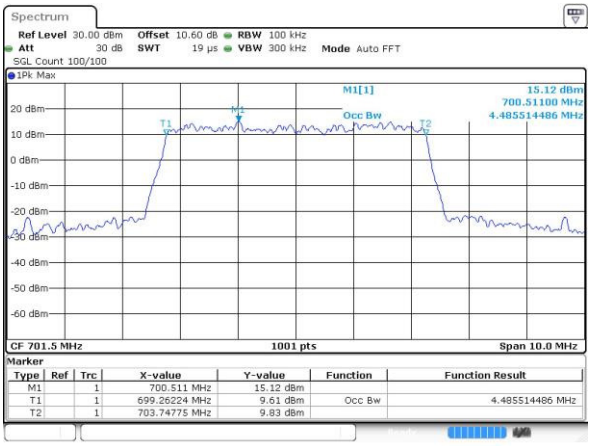


Highest Channel / 3MHz / 16QAM

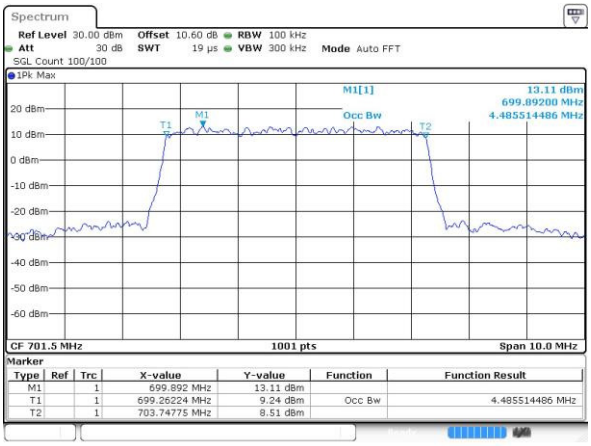


LTE Band 12

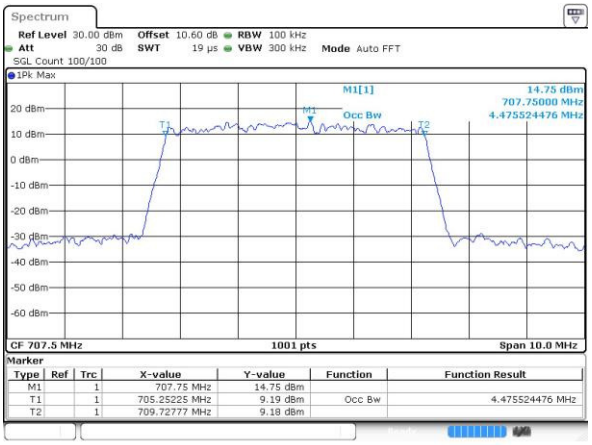
Lowest Channel / 5MHz / QPSK



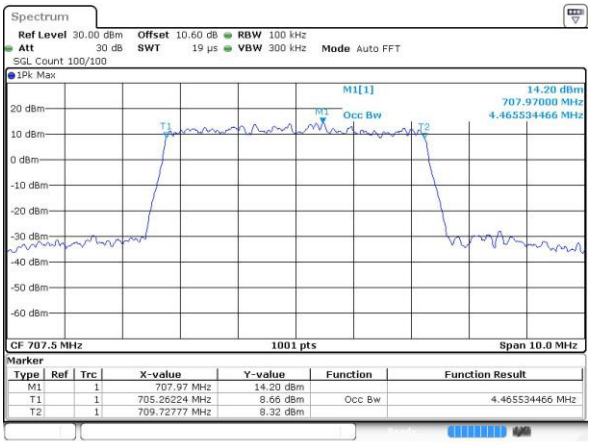
Lowest Channel / 5MHz / 16QAM



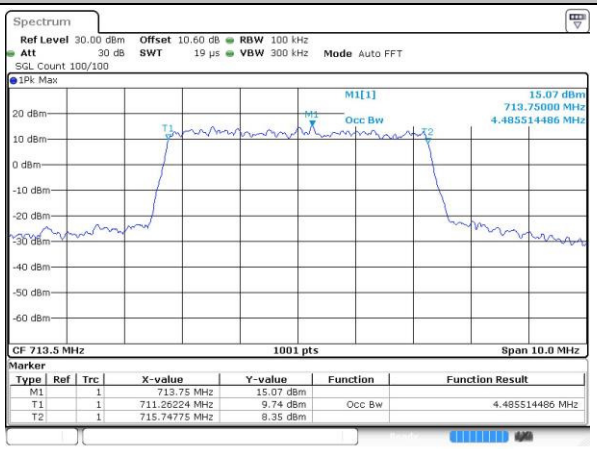
Middle Channel / 5MHz / QPSK



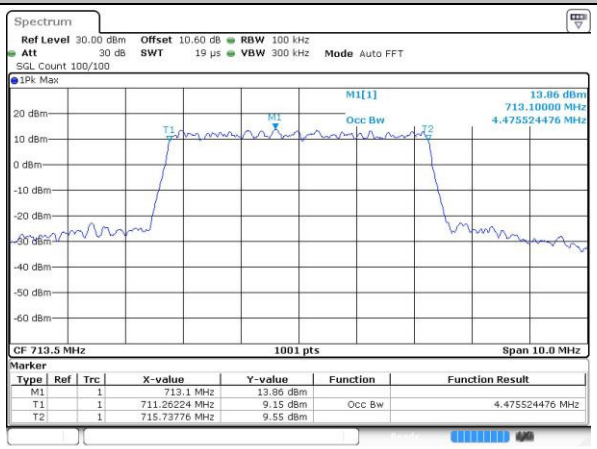
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

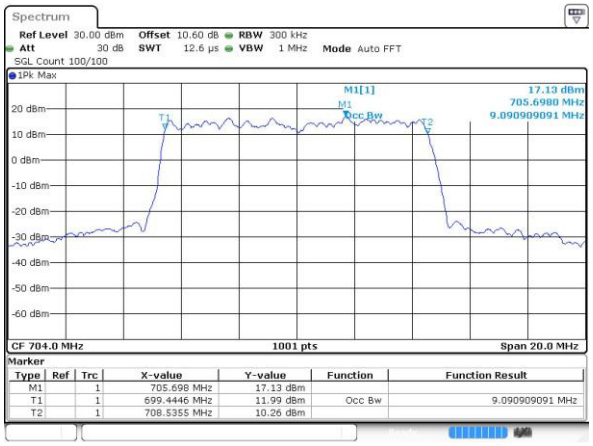


Highest Channel / 5MHz / 16QAM

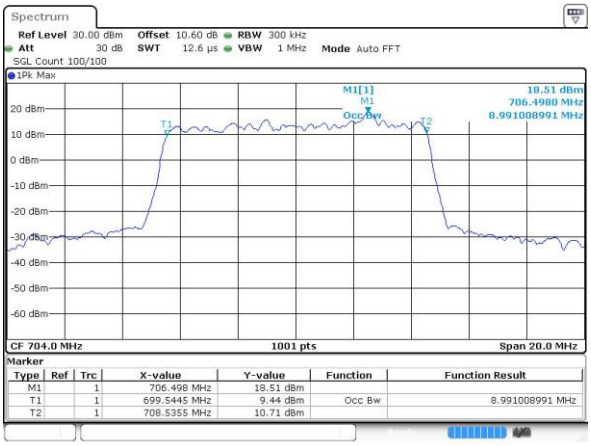


LTE Band 12

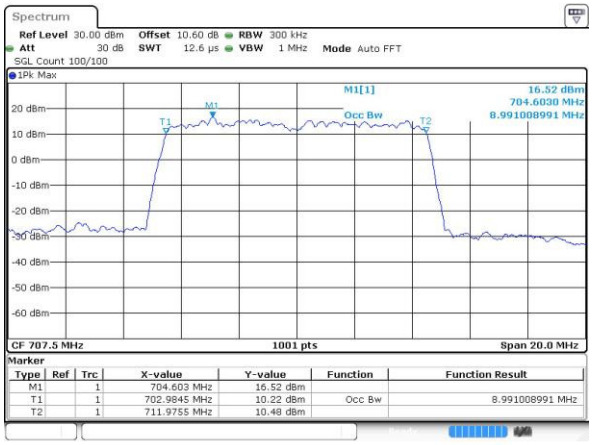
Lowest Channel / 10MHz / QPSK



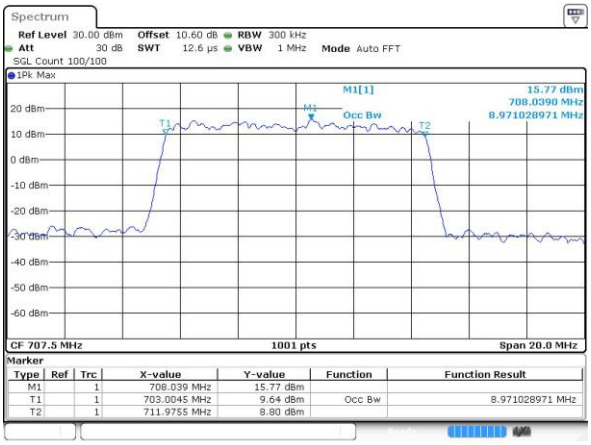
Lowest Channel / 10MHz / 16QAM



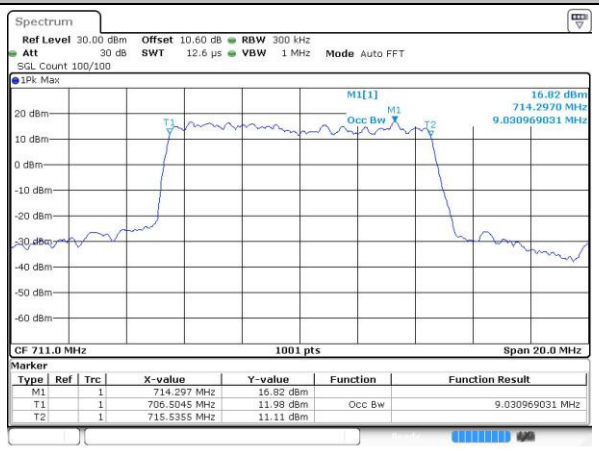
Middle Channel / 10MHz / QPSK



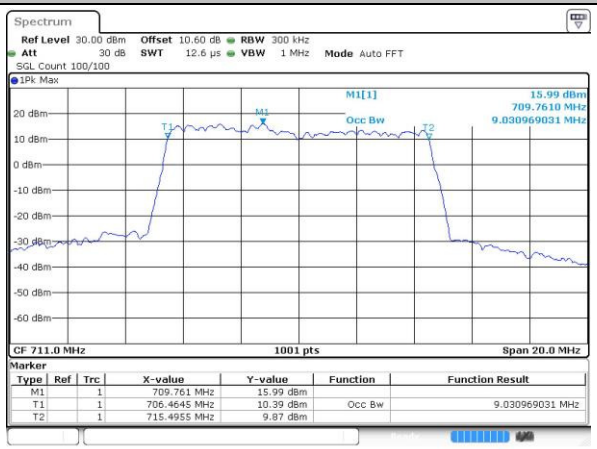
Middle Channel / 10MHz / 16QAM

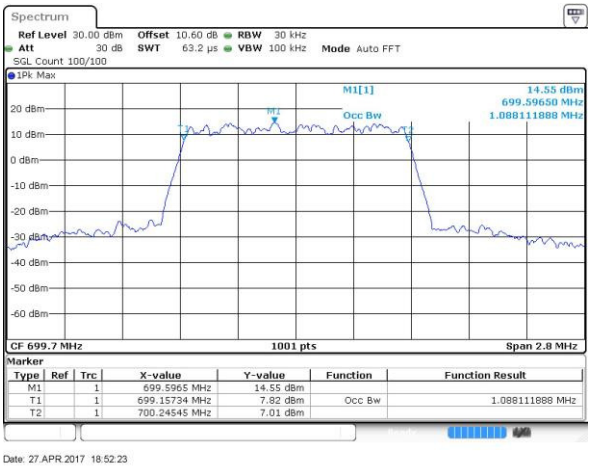
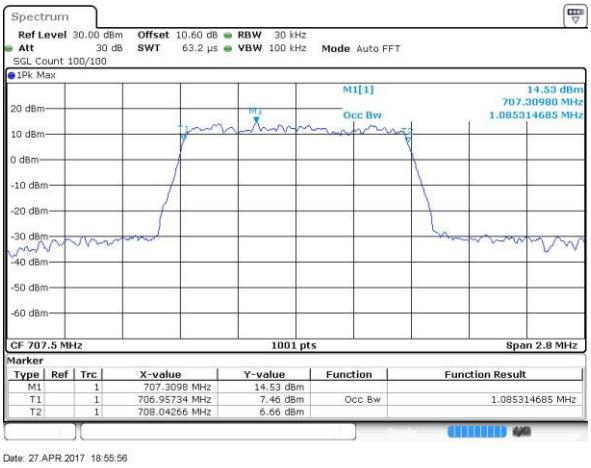
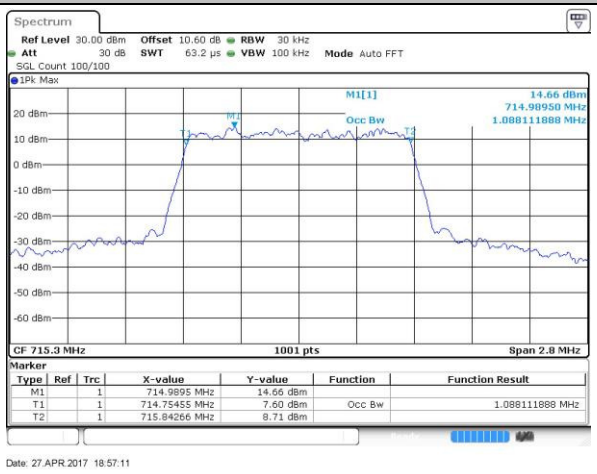


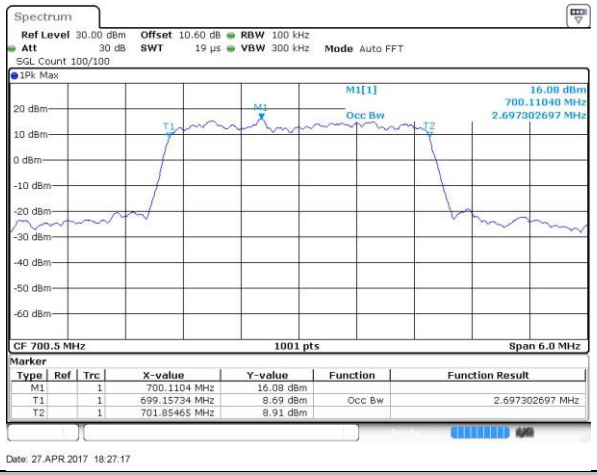
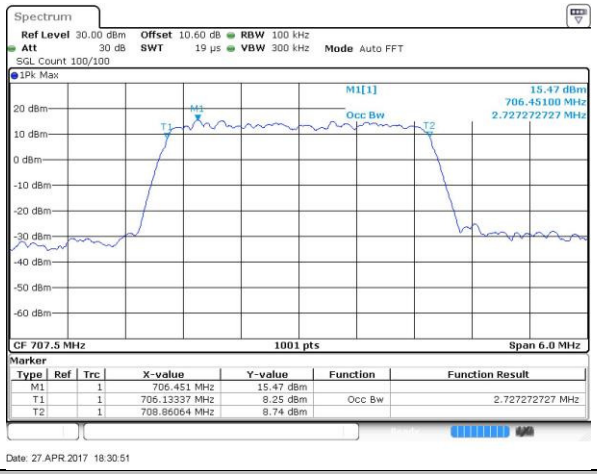
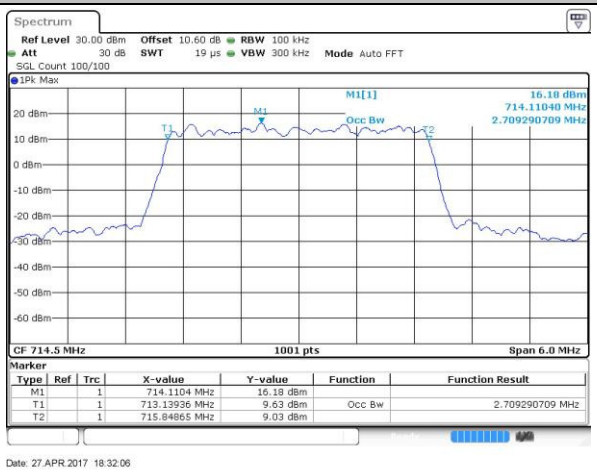
Highest Channel / 10MHz / QPSK

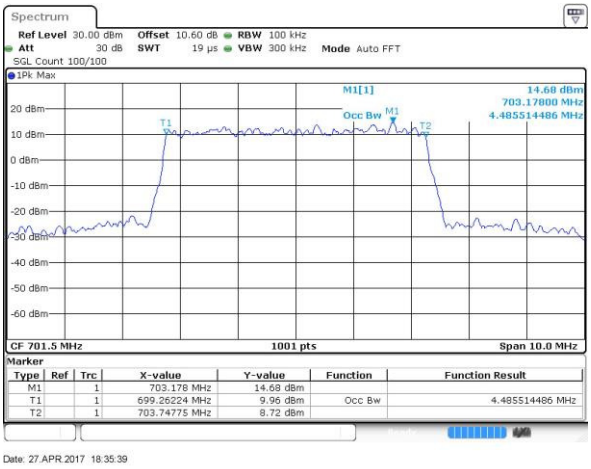
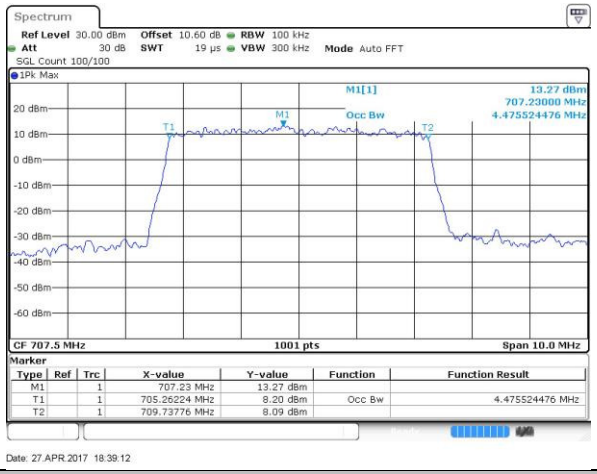
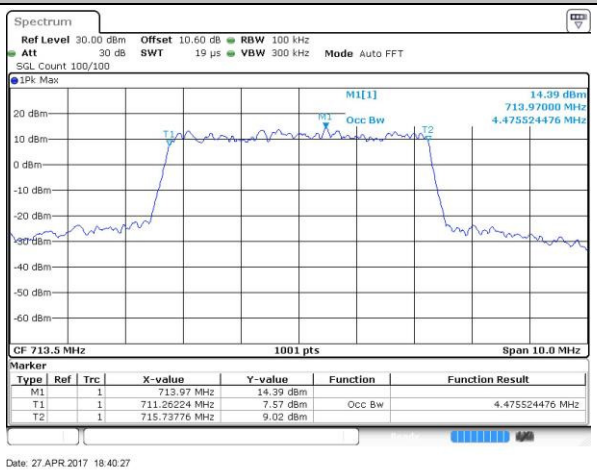


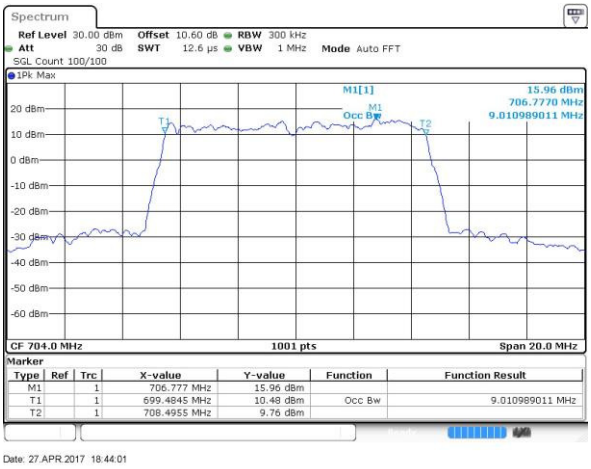
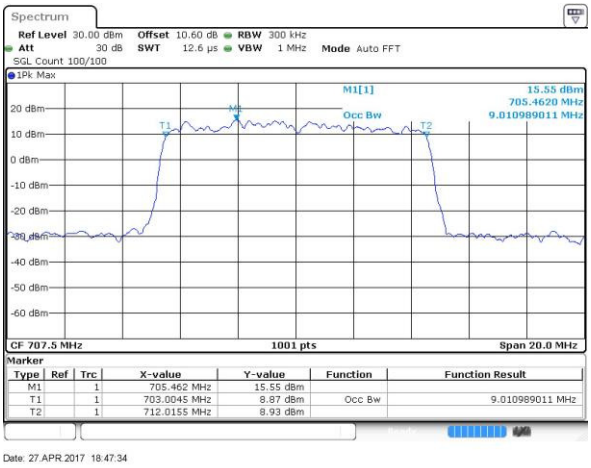
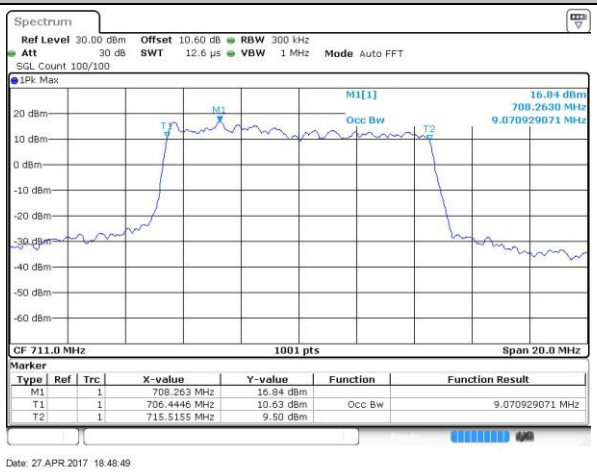
Highest Channel / 10MHz / 16QAM



LTE Band 12	
	Lowest Channel / 1.4MHz / 64QAM
	
	Middle Channel / 1.4MHz / 64QAM
	
	Highest Channel / 1.4MHz / 64QAM
	

LTE Band 12	
	Lowest Channel / 3MHz / 64QAM
	
	Middle Channel / 3MHz / 64QAM
	
	Highest Channel / 3MHz / 64QAM
	

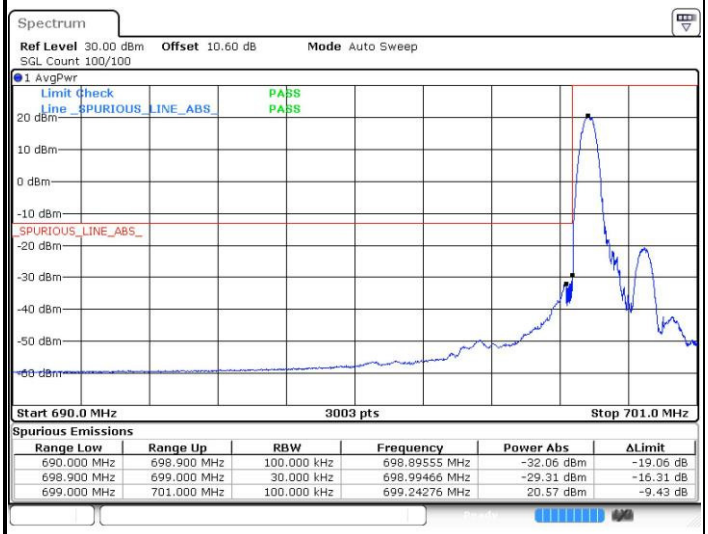
LTE Band 12	
	Lowest Channel / 5MHz / 64QAM
	
	Middle Channel / 5MHz / 64QAM
	
	Highest Channel / 5MHz / 64QAM
	

LTE Band 12	
	Lowest Channel / 10MHz / 64QAM
	
	Middle Channel / 10MHz / 64QAM
	
	Highest Channel / 10MHz / 64QAM
	

Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.06 dBm	-19.06 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99466 MHz	-29.31 dBm	-16.31 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.24276 MHz	20.57 dBm	-9.43 dB

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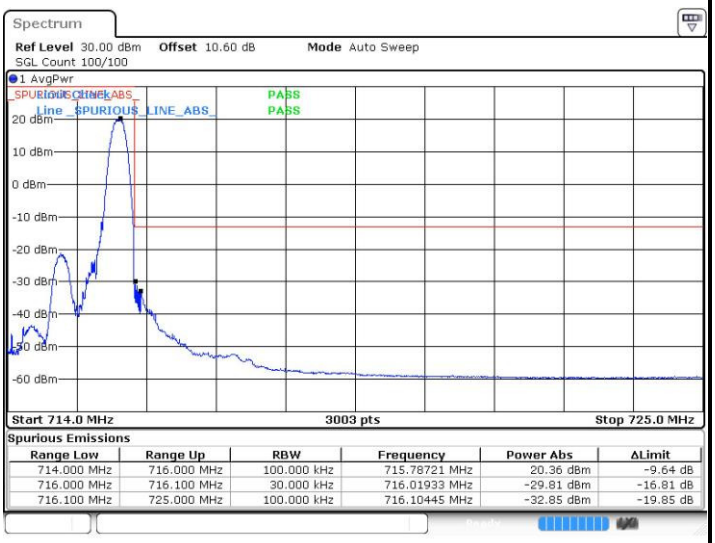
Highest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.78721 MHz	20.36 dBm	-9.64 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01933 MHz	-29.81 dBm	-16.81 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.85 dBm	-19.85 dB

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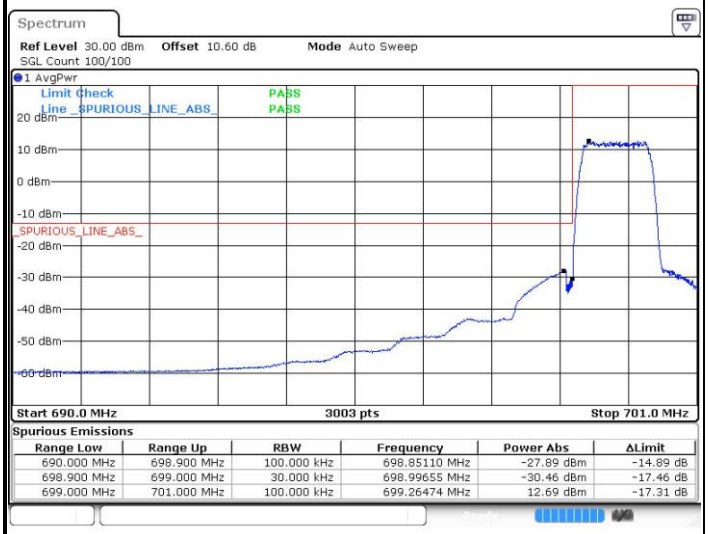
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85110 MHz	-27.89 dBm	-14.89 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99655 MHz	-30.46 dBm	-17.46 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.26474 MHz	12.69 dBm	-17.31 dB

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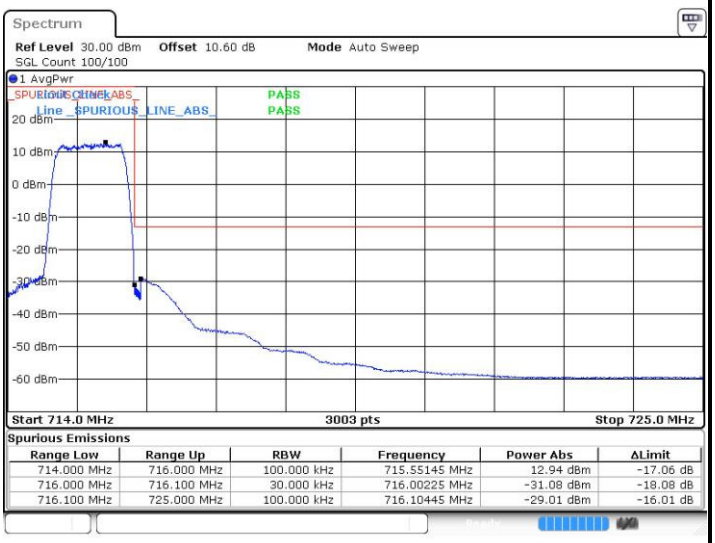
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.55145 MHz	12.94 dBm	-17.06 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00225 MHz	-31.08 dBm	-18.08 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.01 dBm	-16.01 dB

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